

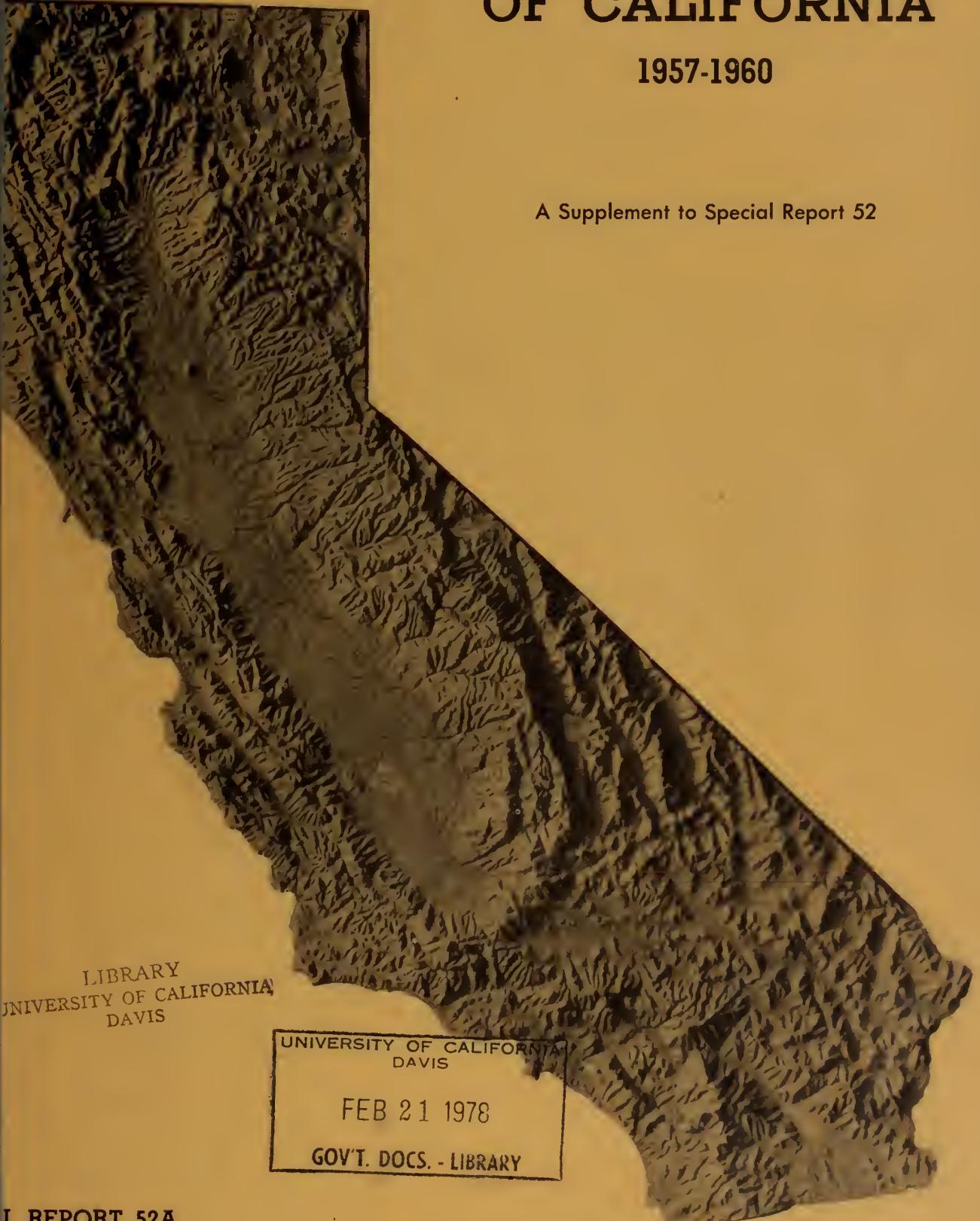
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1957-1960

A Supplement to Special Report 52



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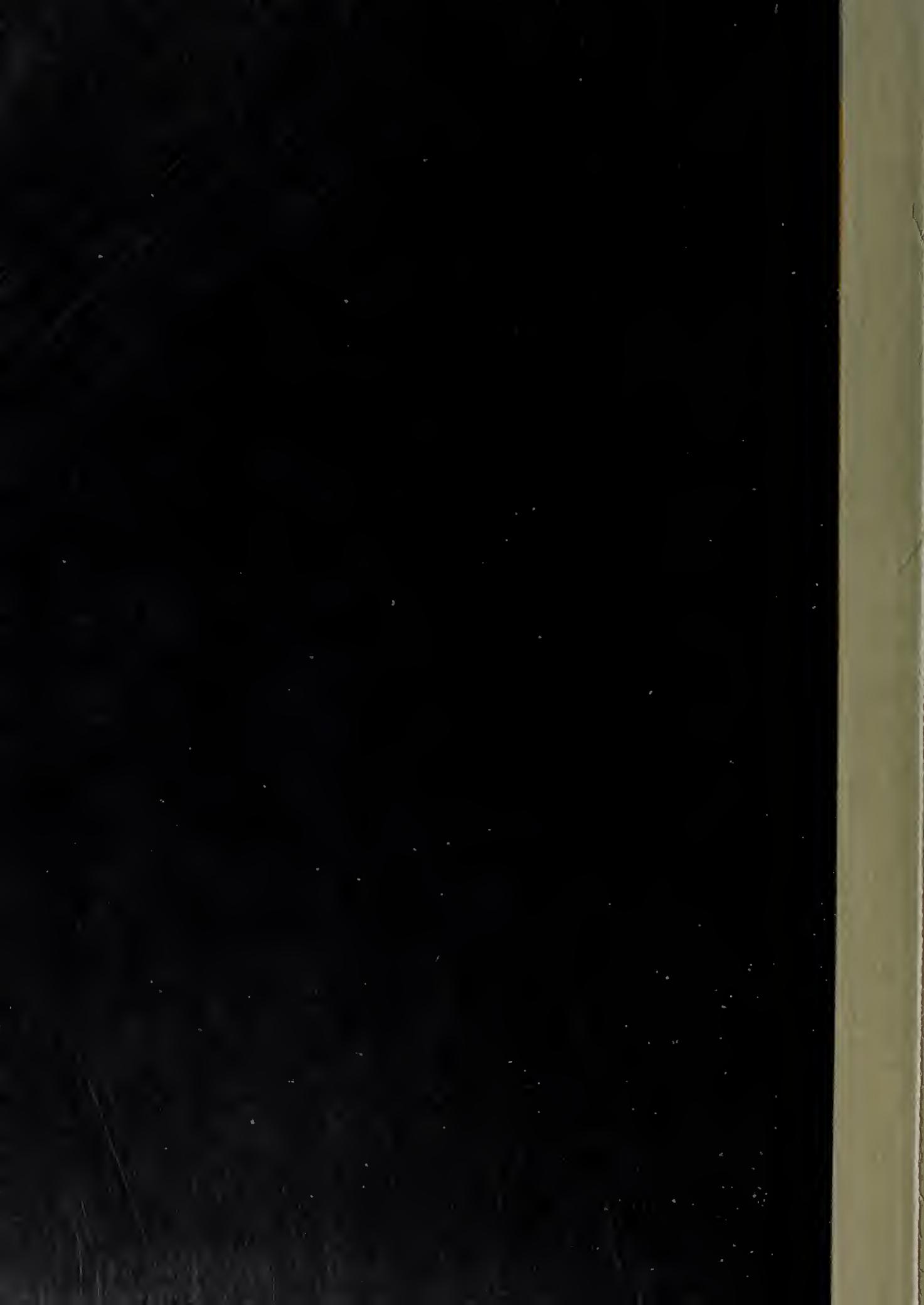
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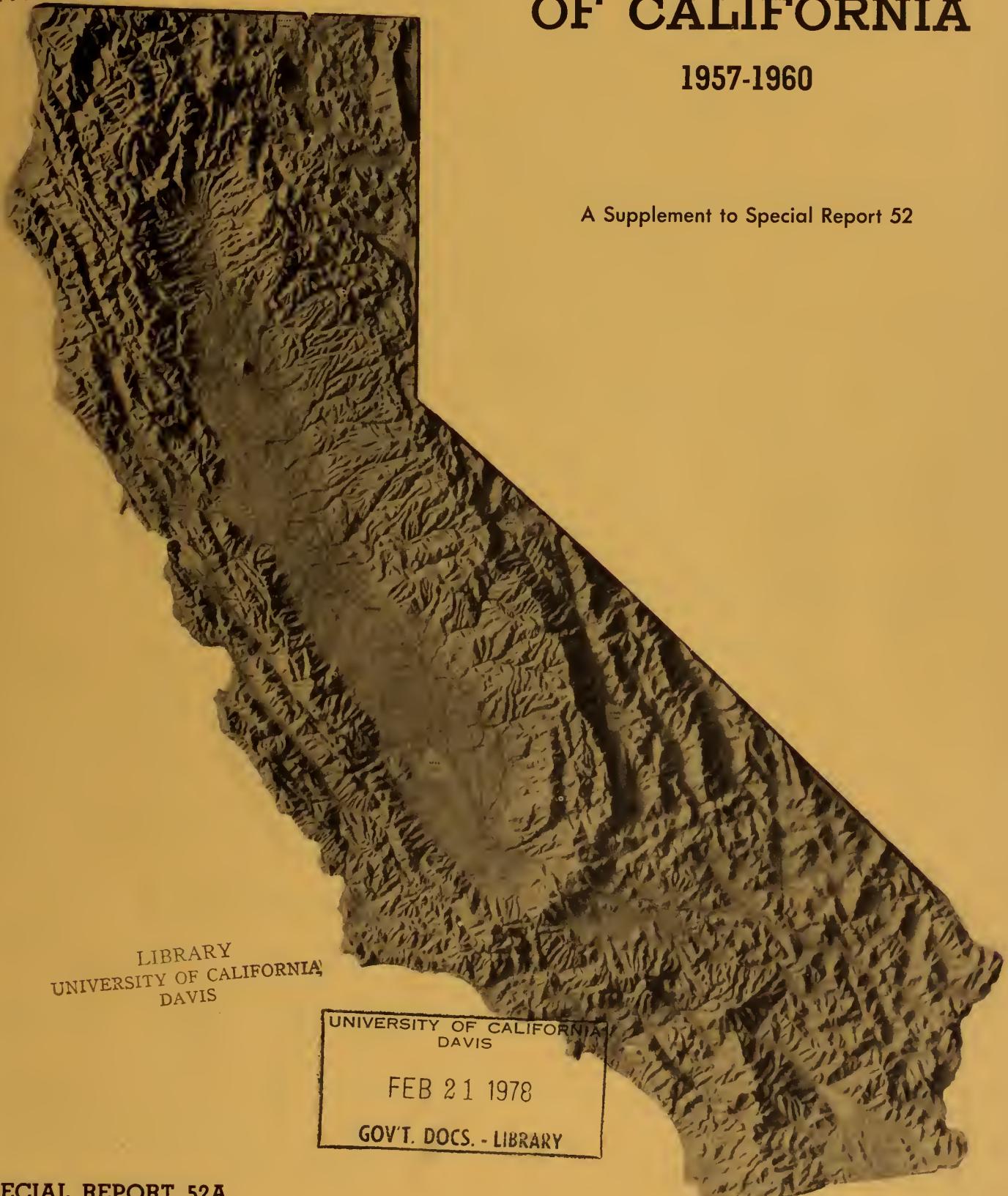
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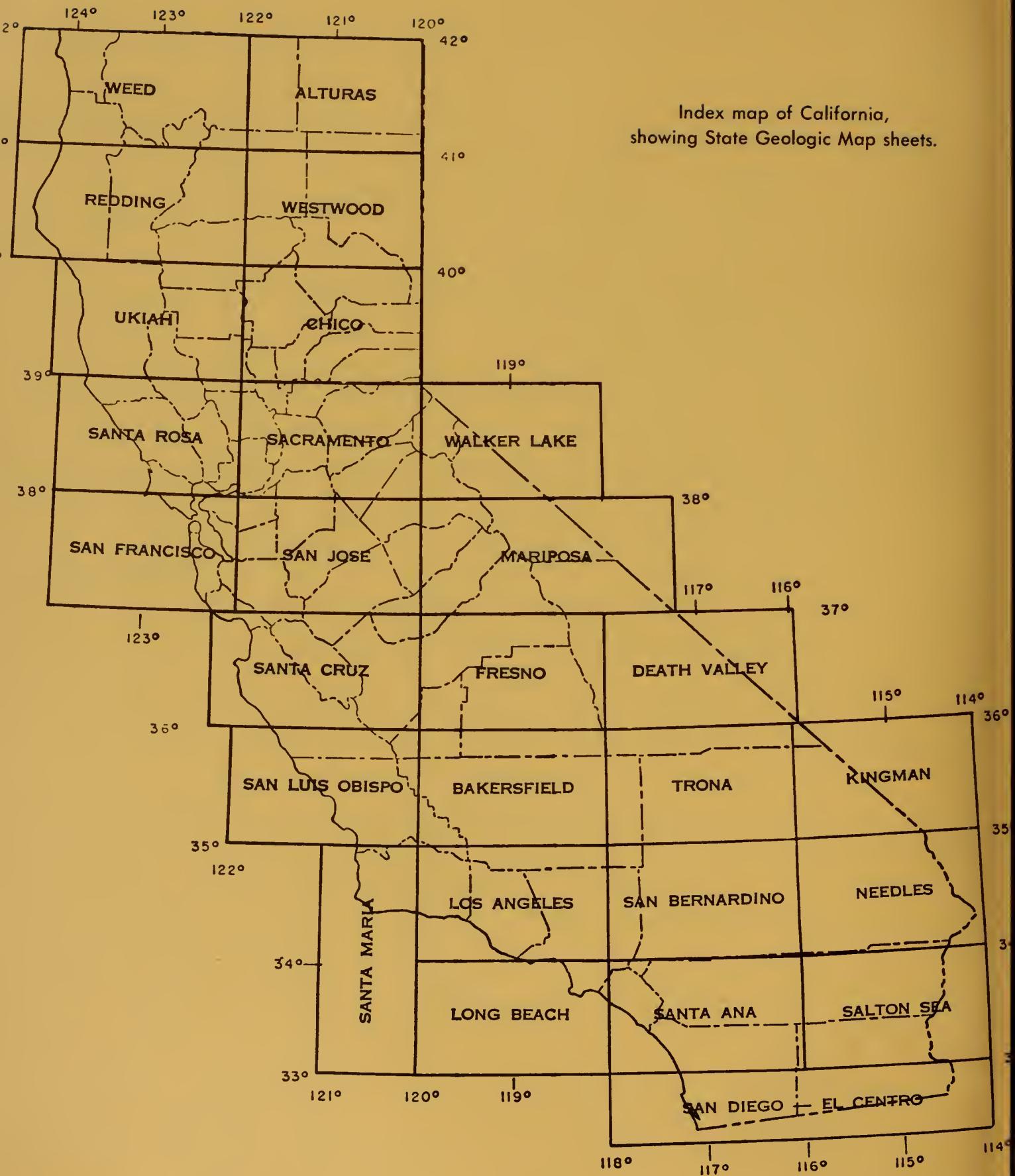
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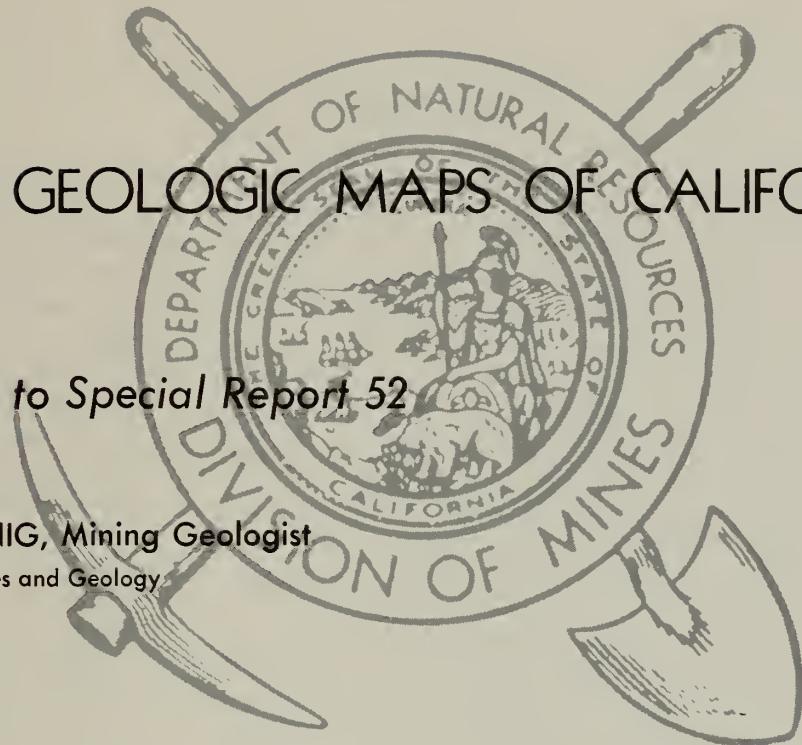
INDEX TO GEOLOGIC MAPS OF CALIFORNIA

1957-1960

A Supplement to Special Report 52

By JAMES B. KOENIG, Mining Geologist

California Division of Mines and Geology



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CONTENTS

	Page
Introduction	5
Alturas Sheet	7
Bakersfield Sheet 1	8
Bakersfield Sheet 2	9
Chico Sheet	10
Death Valley Sheet	11
Fresno Sheet	12
Kingman Sheet	13
Long Beach Sheet 1	14
Long Beach Sheet 2	15
Los Angeles Sheet 1	16
Los Angeles Sheet 2	17
Los Angeles Sheet 3	18
Mariposa Sheet 1	19
Mariposa Sheet 2	20
Needles Sheet	21
Redding Sheet 1	22
Redding Sheet 2	23
Sacramento Sheet	24
Salton Sea Sheet	25
San Bernardino Sheet 1	26
San Bernardino Sheet 2	27
San Bernardino Sheet 3	28
San Diego-El Centro Sheet	29
San Francisco Sheet 1	30
San Francisco Sheet 2	31
San Jose Sheet	32
San Luis Obispo Sheet	33
Santa Ana Sheet 1	34
Santa Ana Sheet 2	35
Santa Cruz Sheet	36
Santa Maria Sheet	37
Santa Rosa Sheet 1	38
Santa Rosa Sheet 2	39
Trona Sheet 1	40
Trona Sheet 2	41
Ukiah Sheet 1	42
Ukiah Sheet 2	43
Walker Lake Sheet	44
Weed Sheet	45
Westwood Sheet	46
Bibliography of geologic maps of California	47
Index to geologic maps by State Geologic Map sheets	58
Index to authors	59

Illustration

Index map of California, showing State Geologic Map sheetsInside front cover

INDEX TO GEOLOGIC MAPS OF CALIFORNIA

1957-1960

A SUPPLEMENT TO SPECIAL REPORT 52

By JAMES B. KOENIG

INTRODUCTION

Purpose. This report supplements Special Report 52, *Index to Geologic Maps of California to December 31, 1956*. The Index to Geologic Maps was originally prepared to aid staff geologists of the Division of Mines and Geology engaged in compiling the new Geologic Map of California, by providing them with a complete bibliography of *published* geologic maps. The Division of Mines published this index as a Special Report in response to widespread public need for such bibliographic material.

Acknowledgments. John L. Burnett, of the California Division of Mines and Geology, helped extensively in the early stages of this compilation. Help and encouragement also were given by Charles W. Jennings of the Division. Bibliographic data cards supplied by Mrs. Ruth R. King, of the U. S. Geological Survey, proved useful as a checklist.

Scope. The Index to Geologic Maps has been continued, in this report, through 1960. In addition, this index lists about 20 pre-1957 geologic maps which were inadvertently omitted from Special Report 52. Also included in this new index are about 35 open-file reports and field-trip road logs in which geologic maps appear, and a smaller number of maps showing marine geology off the coast of California.

Over 250 maps are cited in this index. Of these, some 50 maps are repeated from earlier publications, and, except for minor modifications, are unchanged. The remaining 200 are either original geologic maps, or are significantly different from earlier maps upon which they are based.

An attempt has been made to make this index as complete as possible. However, there can be no certainty of completeness, as geologic maps of California occasionally appear in unlikely or obscure journals and reports, some of which are not printed in this country. Occasionally,

too, a report is not issued until months after the end of the year that it is dated. Therefore, some "1960" publications may not have been issued at the time this index was completed. Readers of this report who note errors or omissions are urged to notify the Division of Mines and Geology in order that future editions may be corrected.

No attempt has been made to include all open-file reports or field-trip road logs, especially as many were issued in very limited numbers. Those included generally cover areas of recurring interest, or areas where there is limited published geologic mapping. Wherever possible, the places at which open-file reports may be consulted have been listed in the bibliography.

With a few exceptions, maps with scales smaller than 1:1,000,000 (16 miles to the inch) have been omitted. Also, underground mine maps and subsurface geologic maps generally have been excluded.

Maps that show only certain of the geologic features of an area have been so noted in the bibliography: for example, maps of glacial or alluvial deposits, or maps showing only faults or rocks of one specific age.

Index Map Sheets. As in Special Report 52, outlines of the geologic maps referenced in this report are plotted on index map sheets. These index map sheets correspond to the 27 sheets of the California State Geologic Map. In general, these sheets cover areas bounded by 2 degrees of longitude and 1 degree of latitude. An outline map of the state, inside the front cover, shows the name and location of each of these sheets. Changes have been made in the names of, and areas covered by, some map sheets of the State Geologic Map since the publication of Special Report 52. The Fort Bragg sheet has been renamed Ukiah; Goldfield has been merged with Mariposa, taking the latter's name; a joint San Diego-El Centro sheet replaces the individual San Diego and El Centro sheets; and the area of the Eureka sheet has been divided

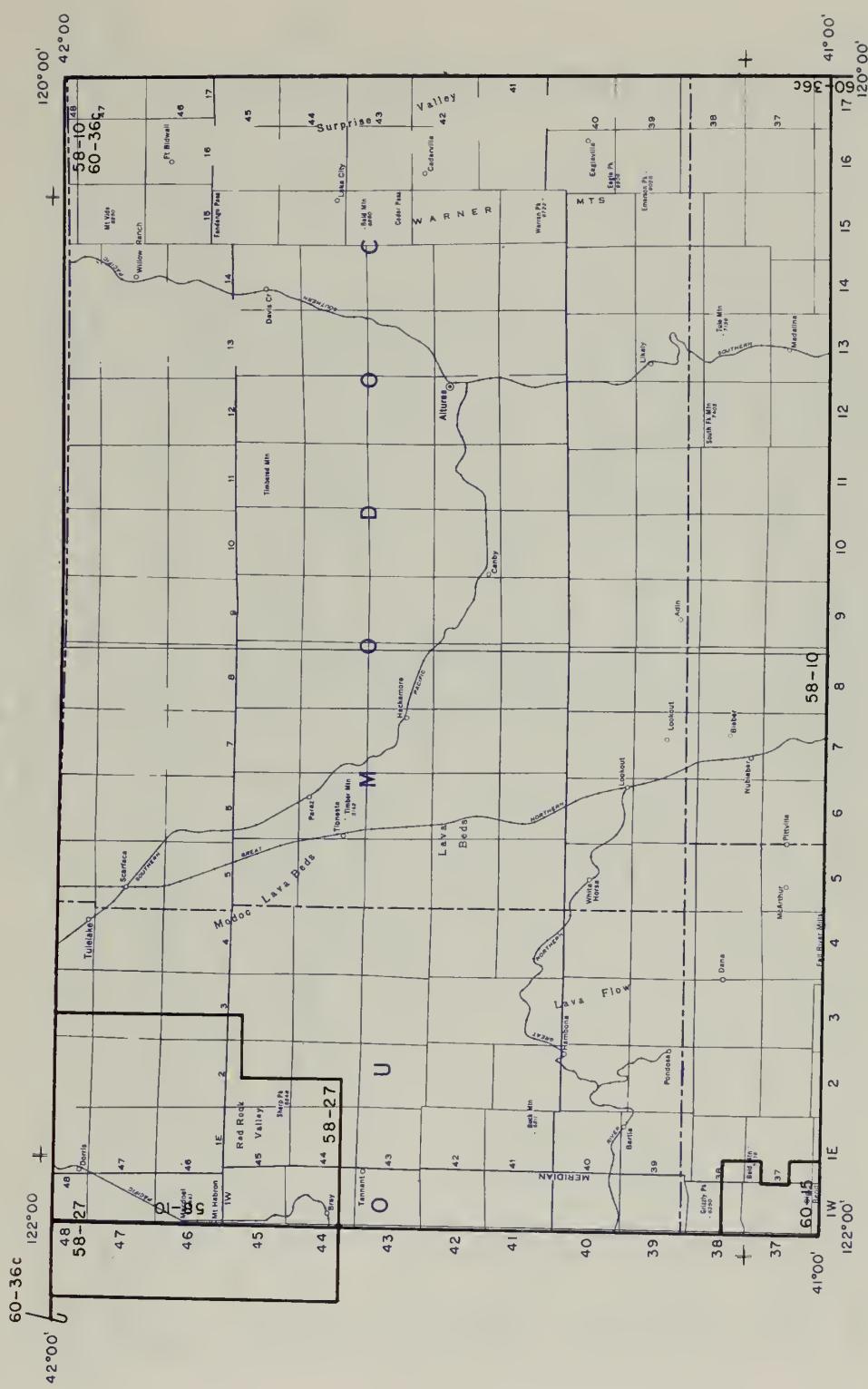
between the Weed and Redding sheets. These changes are observed in this index.

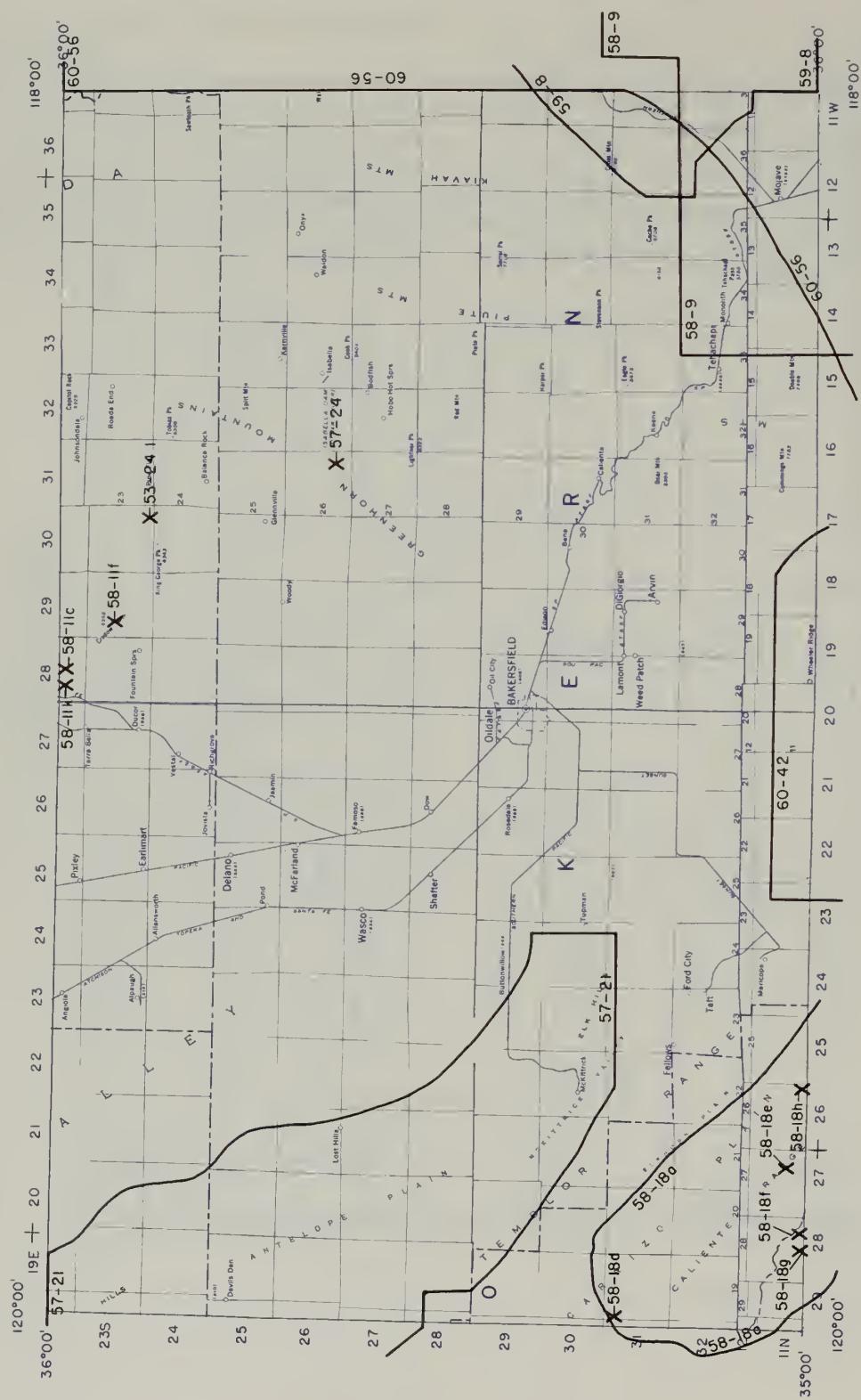
In many cases it has been necessary to use two or more index map sheets in order clearly to show all of the geologic maps of a specific area. This has been done for the map sheets covering the Los Angeles and San Francisco metropolitan areas, and for the Death Valley sheet.

Numbering System and Cross-Indexes. The numbering system used in this publication is the same as that

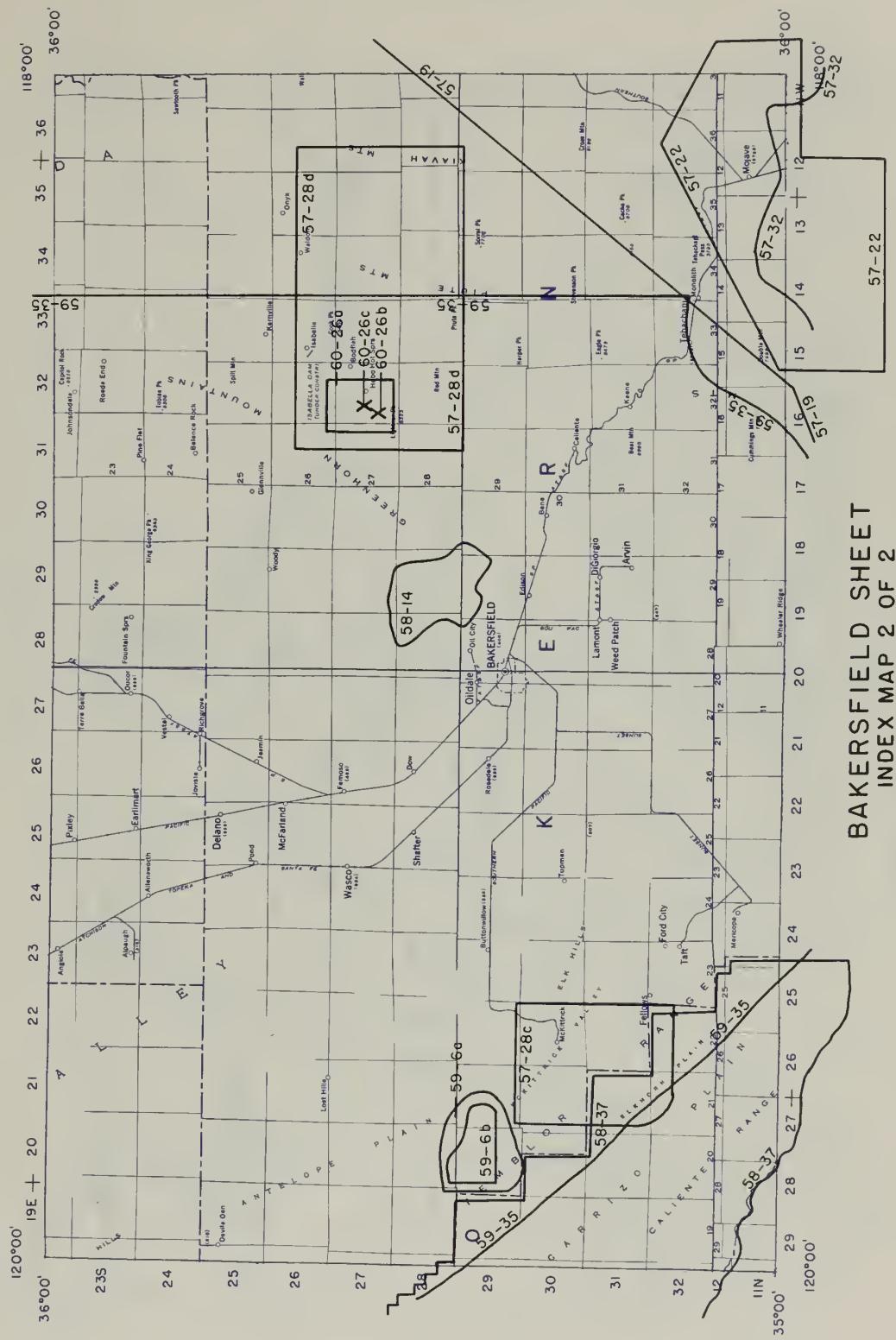
used in Special Report 52. The first two digits of the number denote the year in which the map was *originally* published. (This is not necessarily the same as the date of the publication here cited.) For each year the publications are numbered serially. Terminal letters are used in cases where several geologic maps appear in a single publication.

The maps are referenced in three separate indexes: by number, under the system described above; by author; and by State Geologic Map sheet.

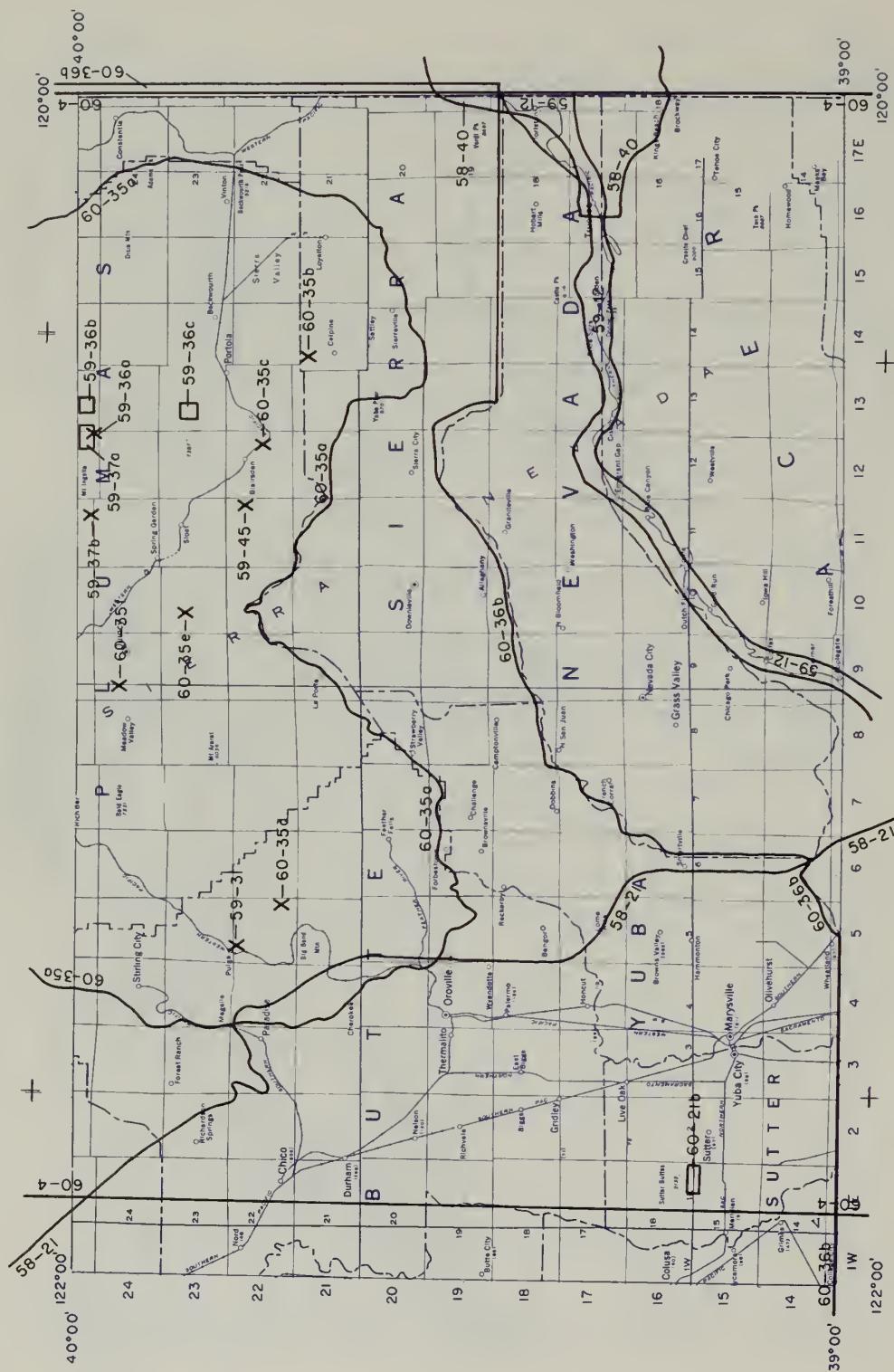




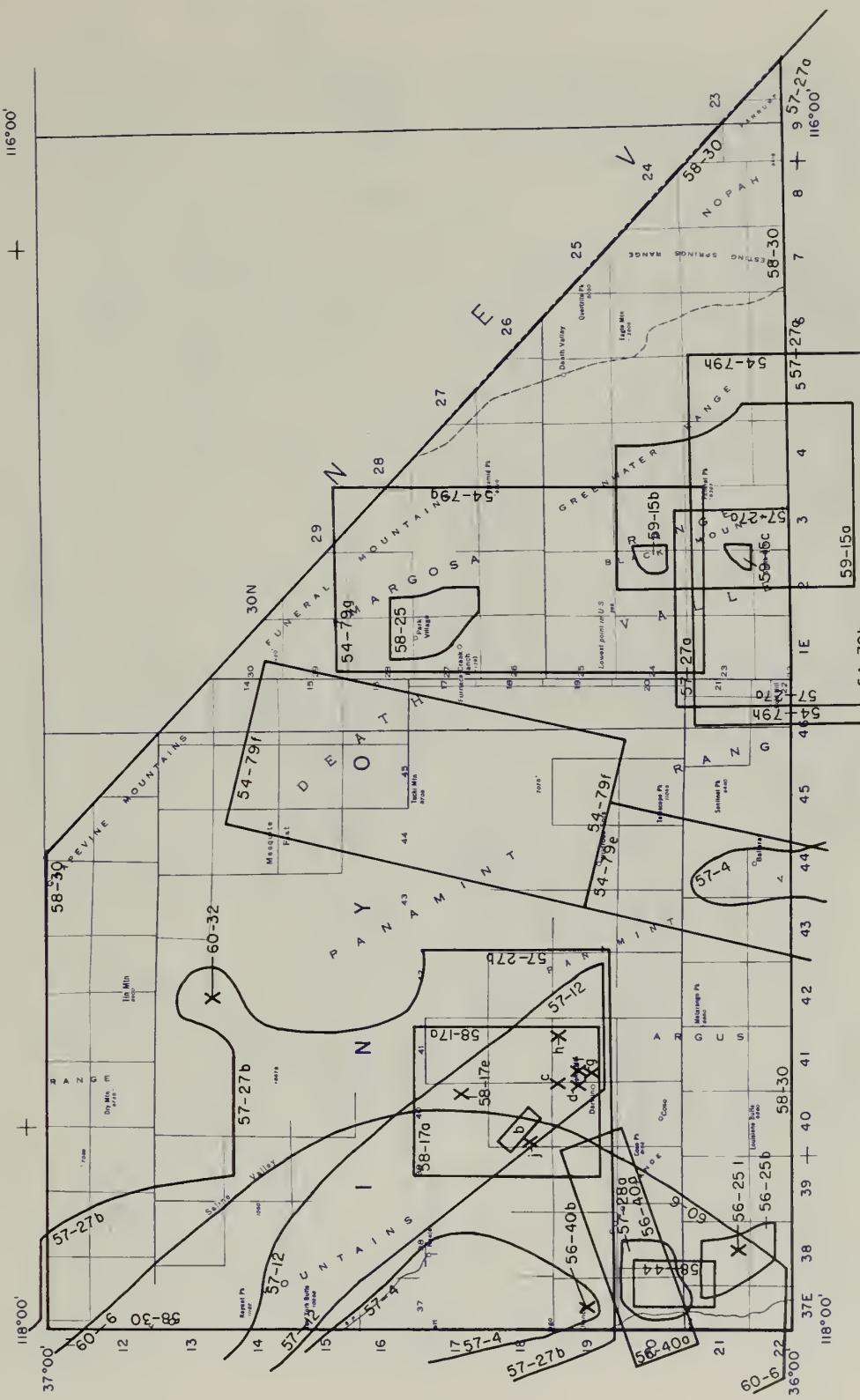
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INDEX MAP 1 OF 2



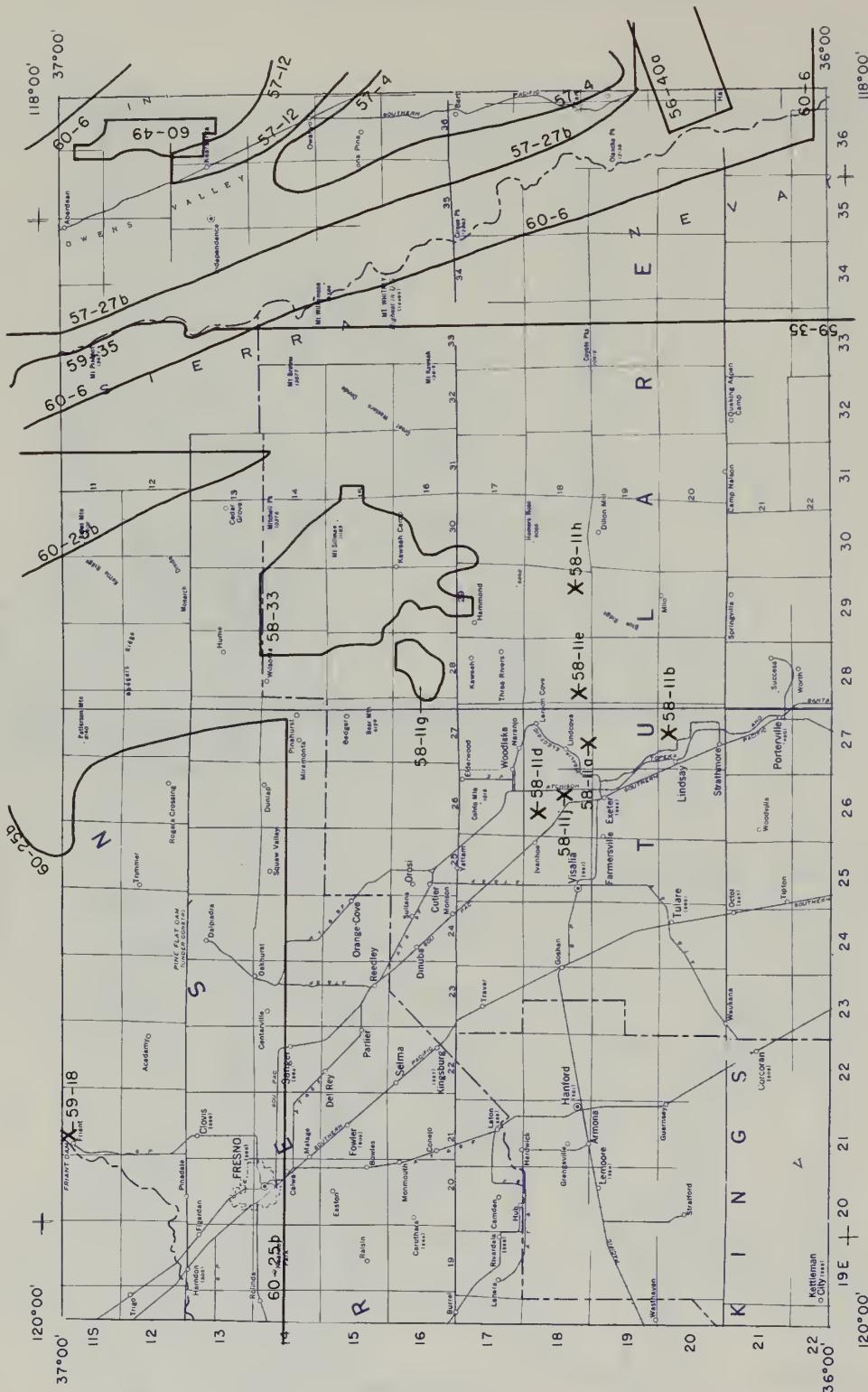
BAKERSFIELD SHEET
INDEX MAP 2 OF 2



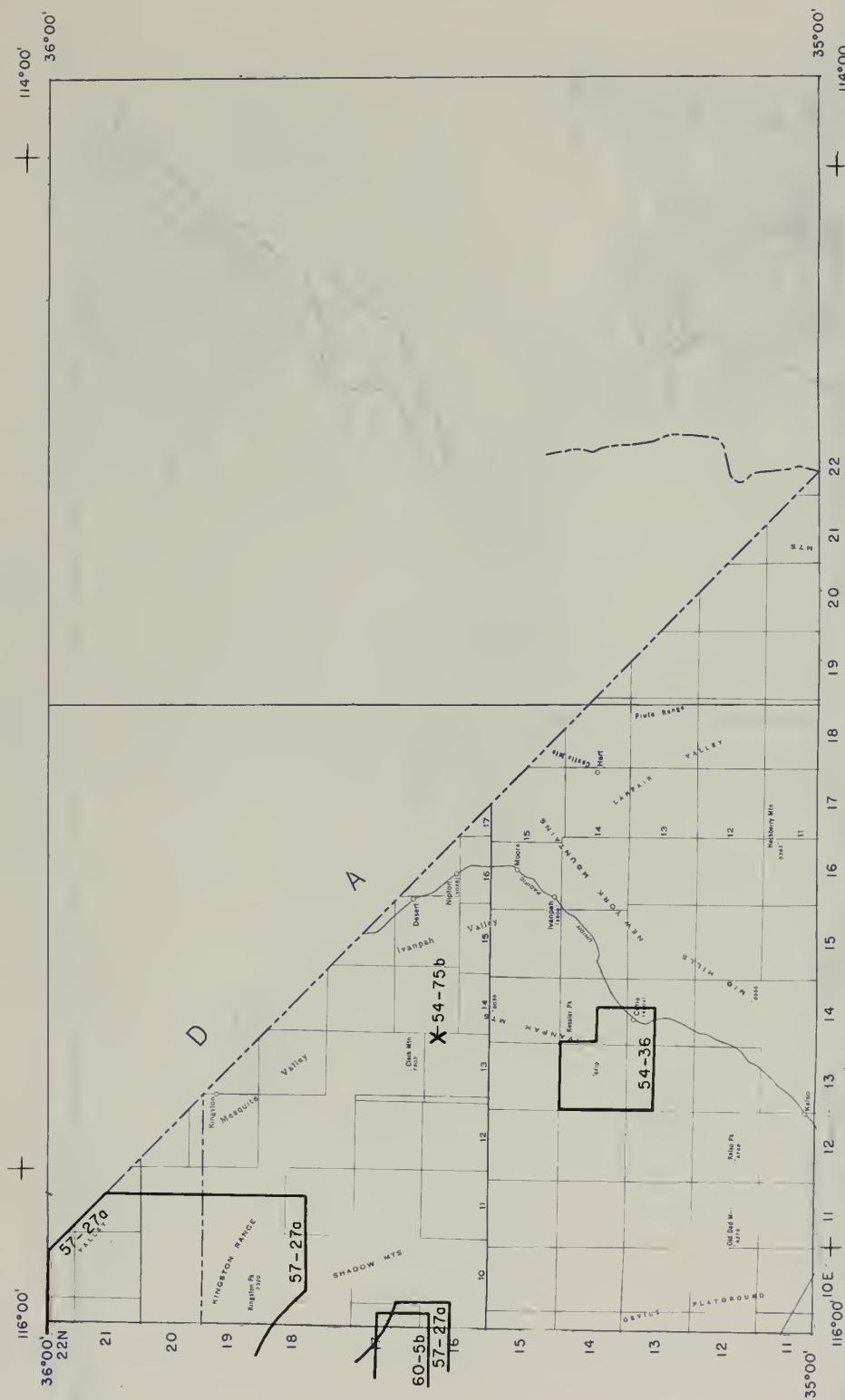
CHICO SHEET



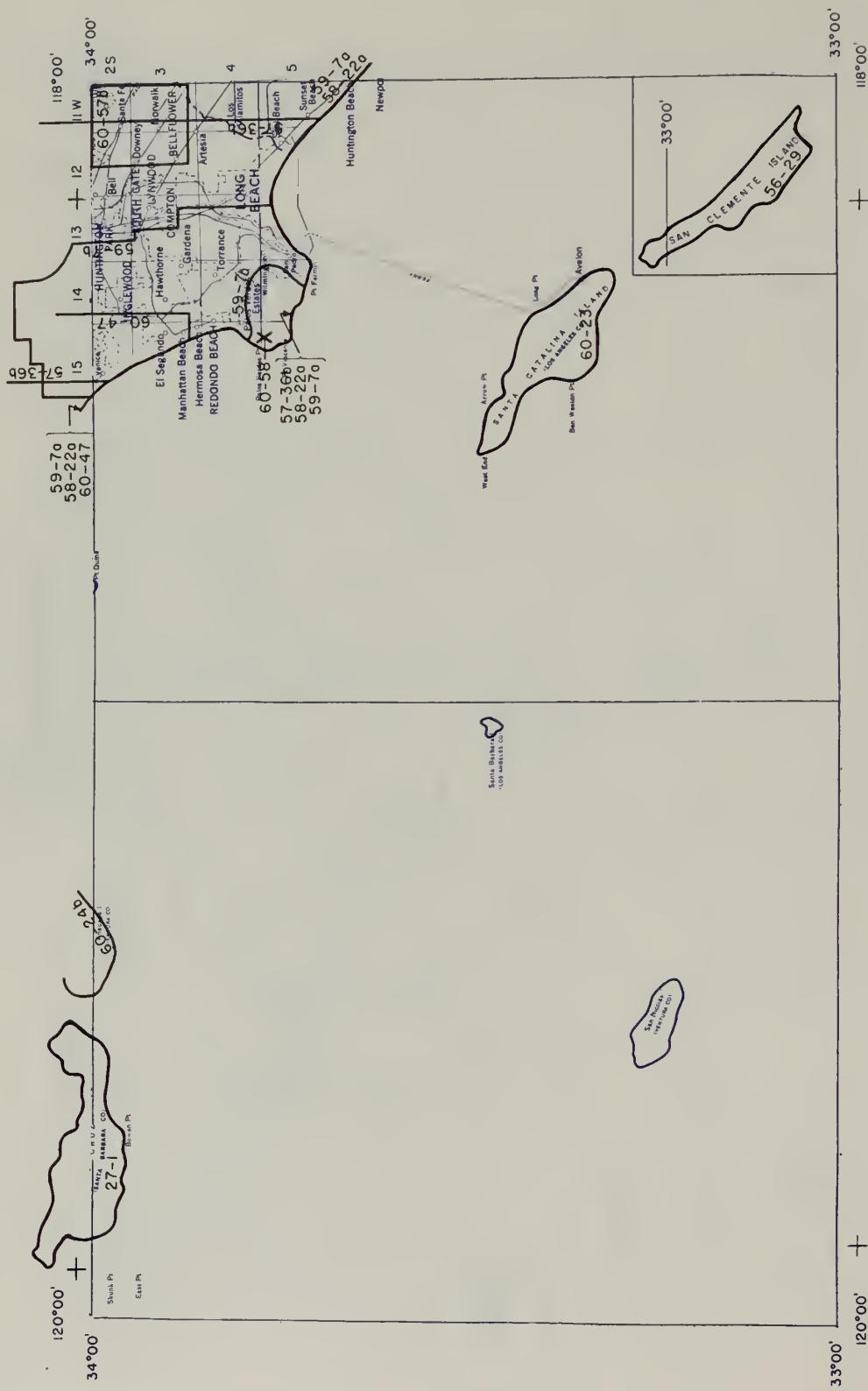
DEATH VALLEY SHEET

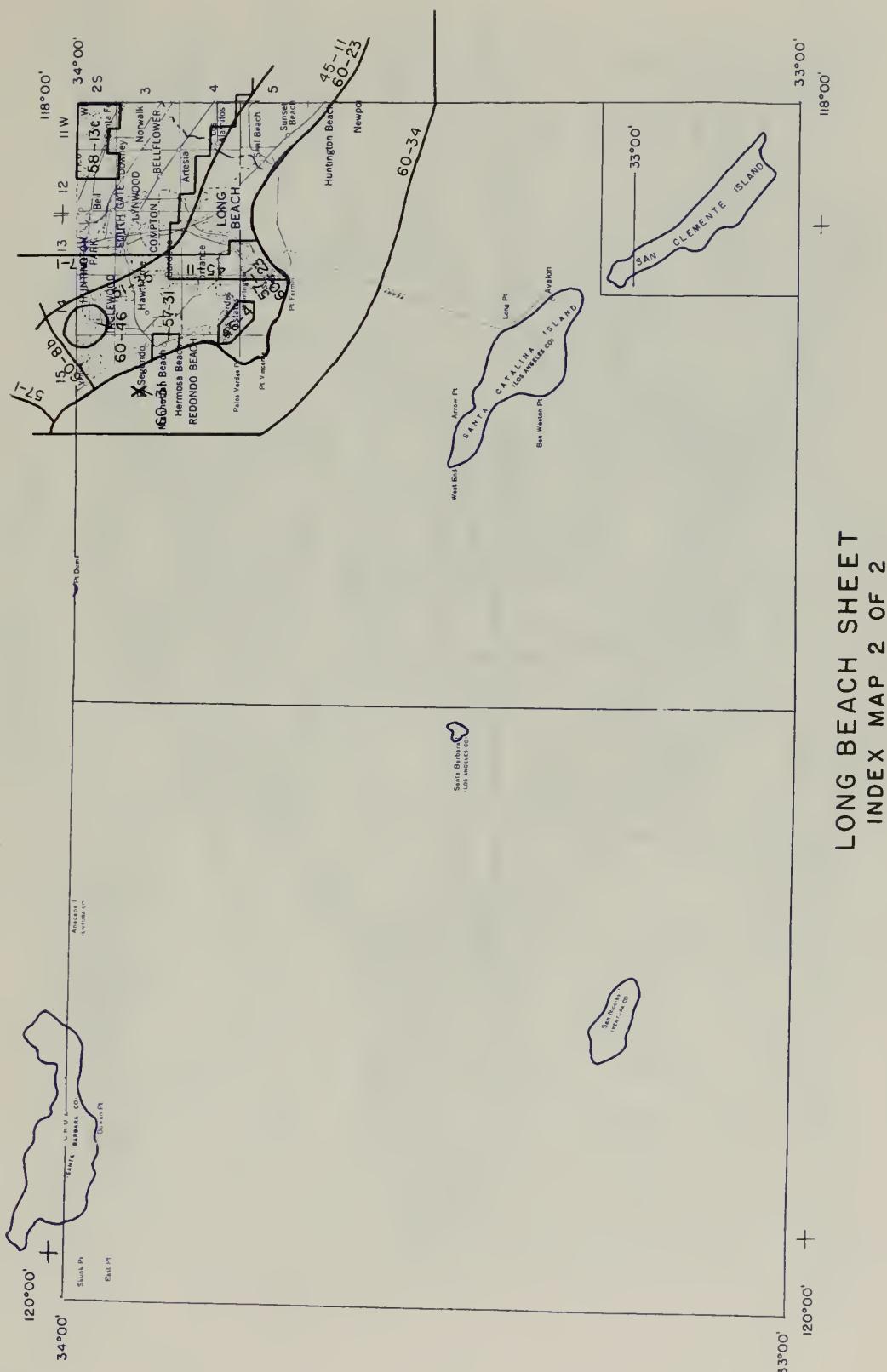


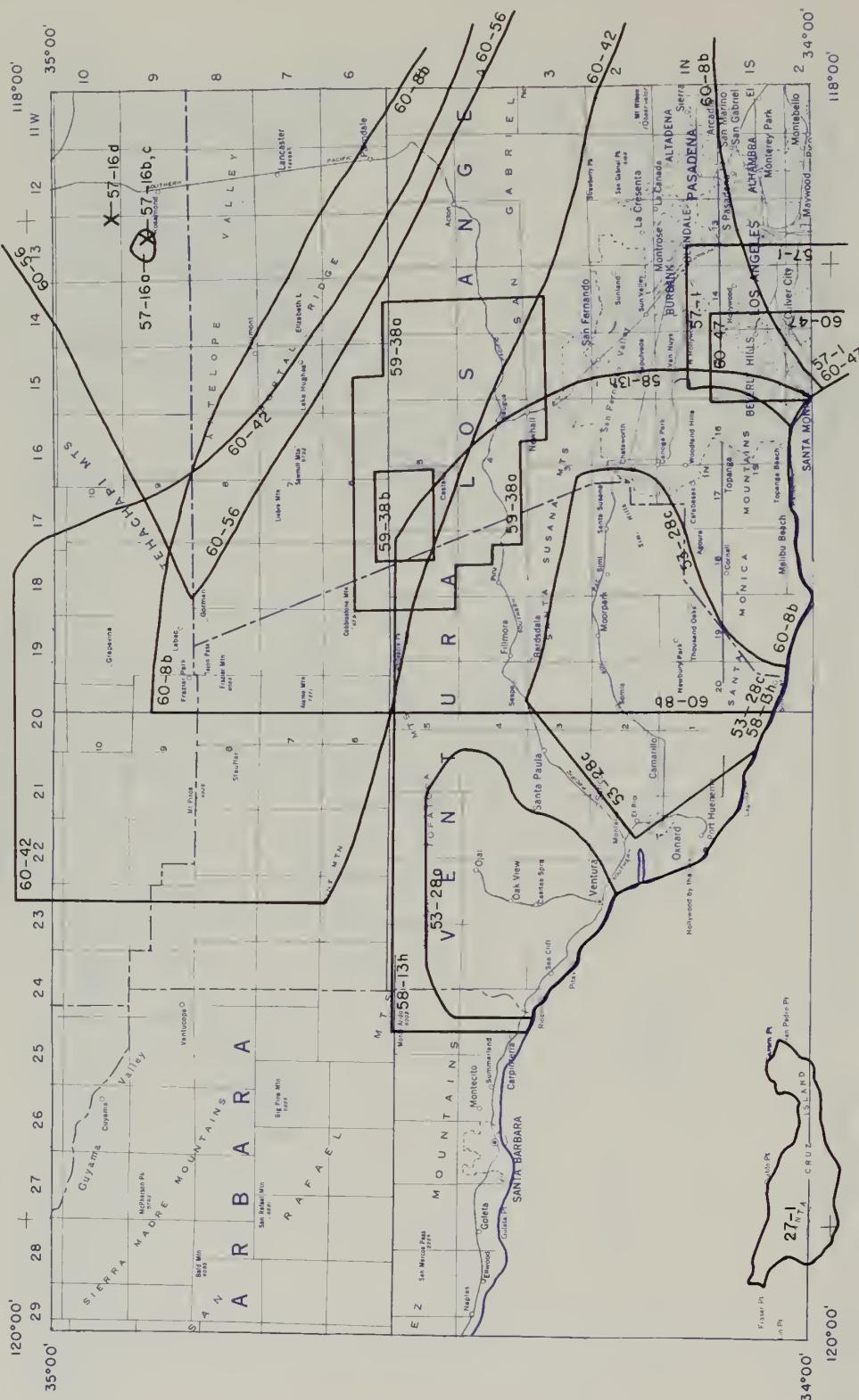
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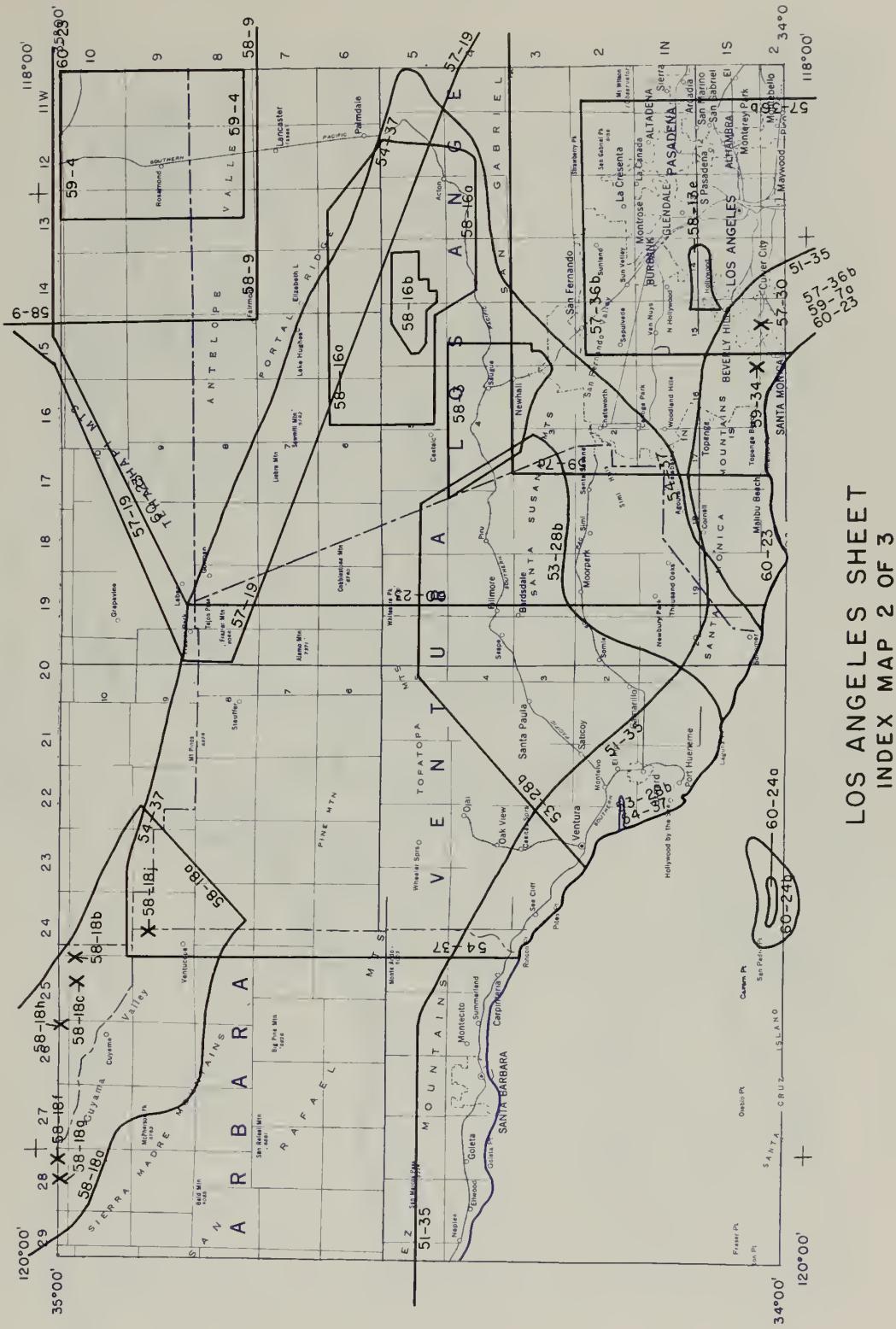
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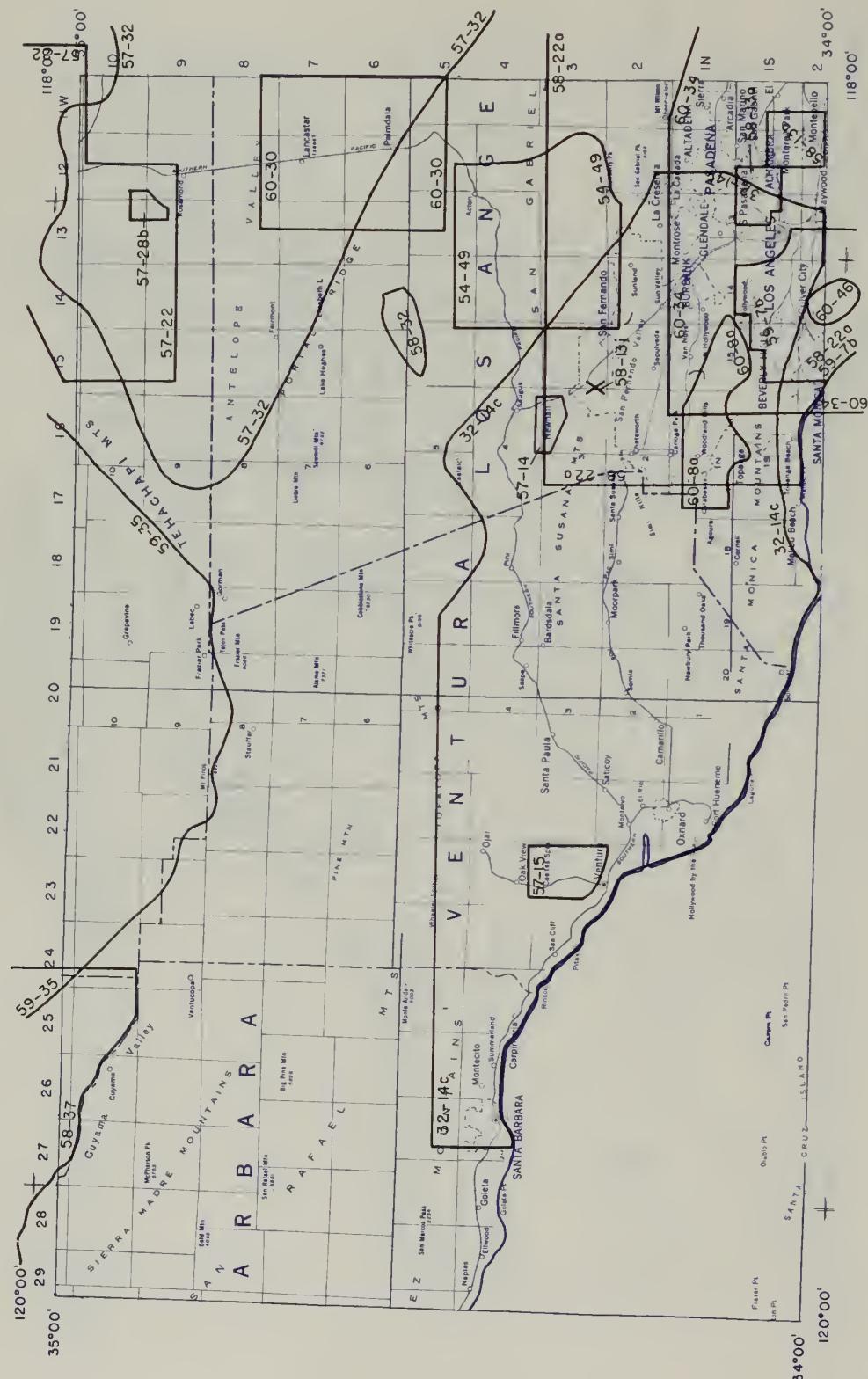




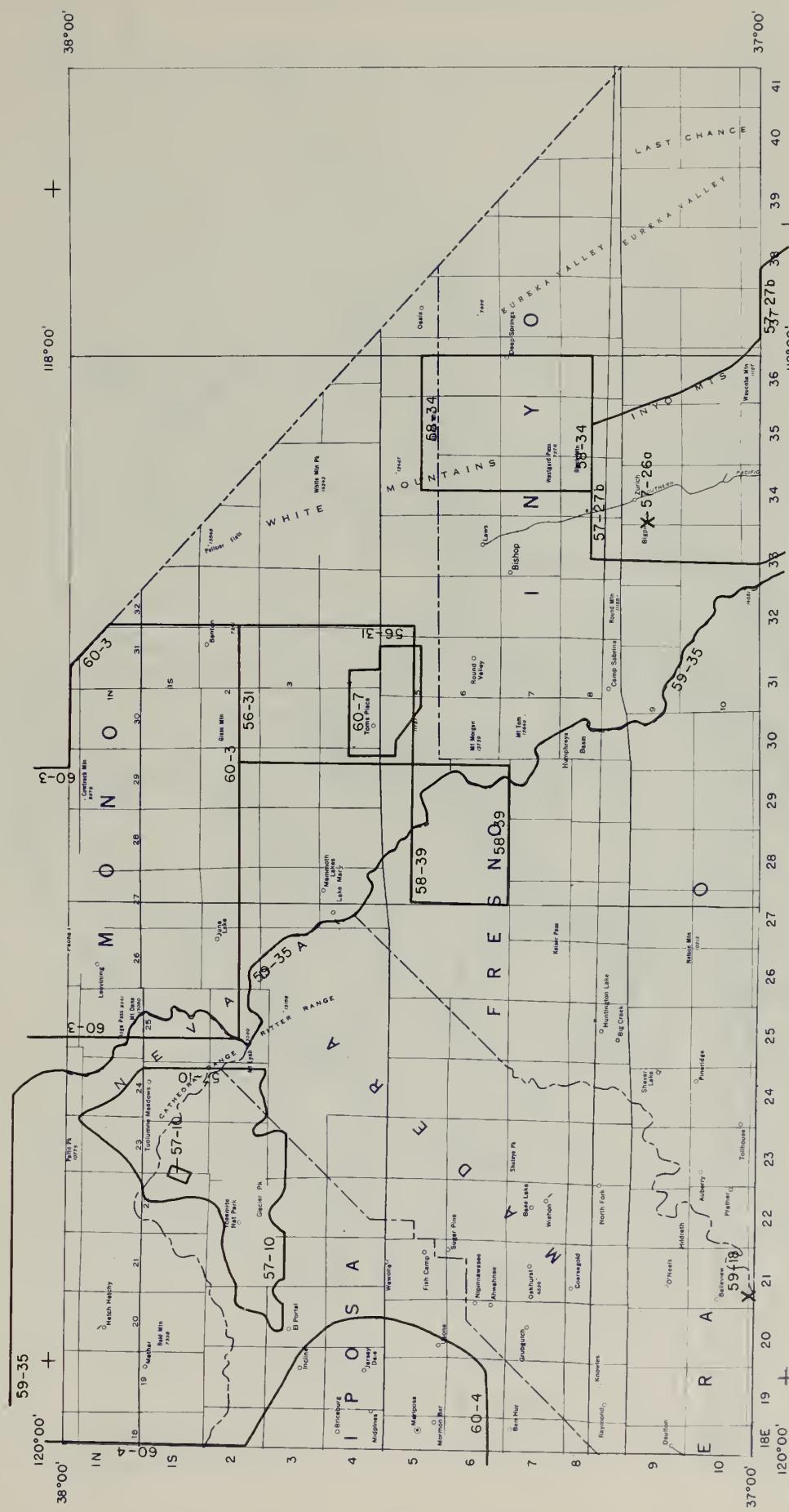
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INDEX MAP 1 OF 3**



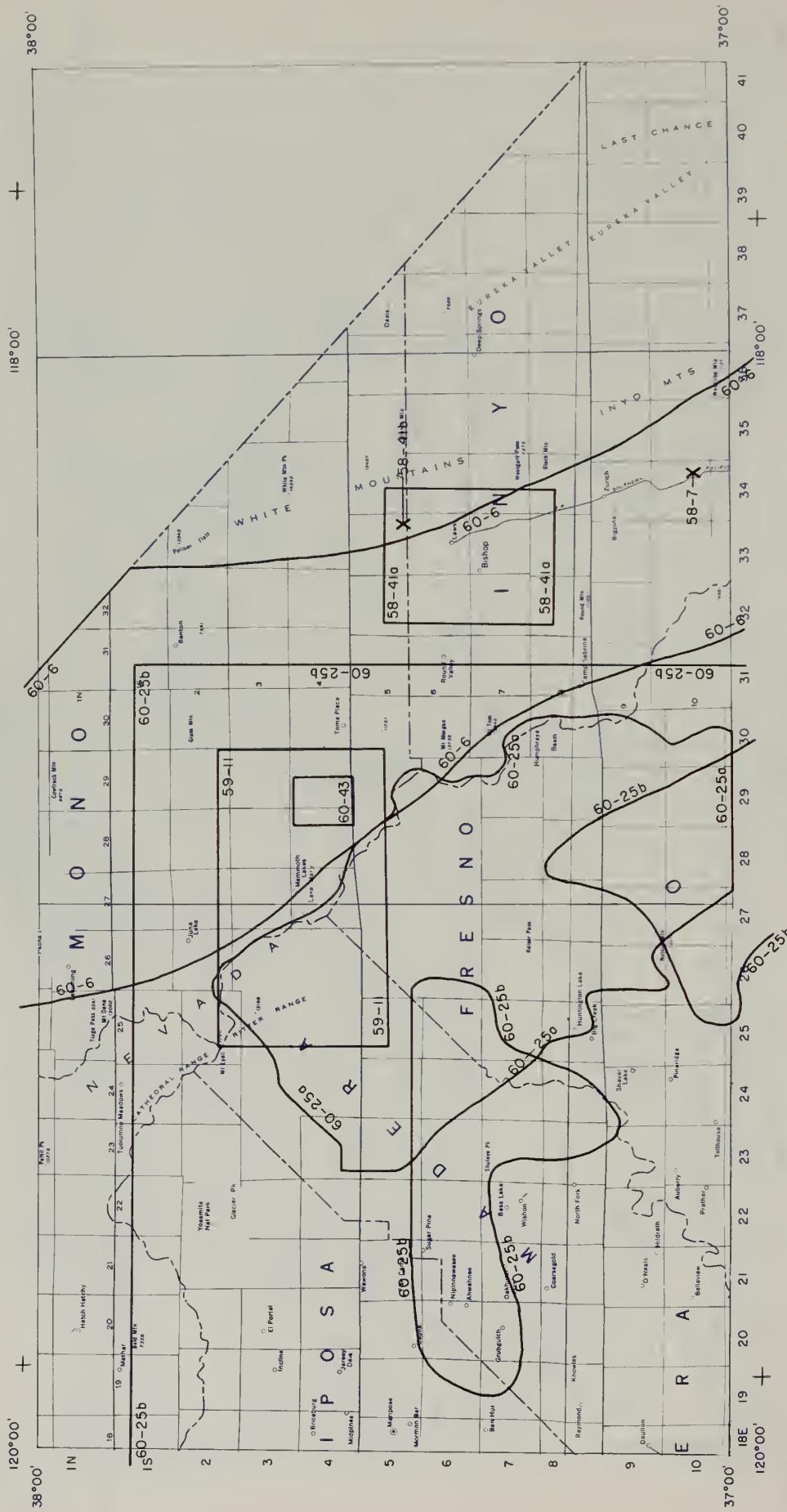
**LOS ANGELES SHEET
INDEX MAP 2 OF 3**



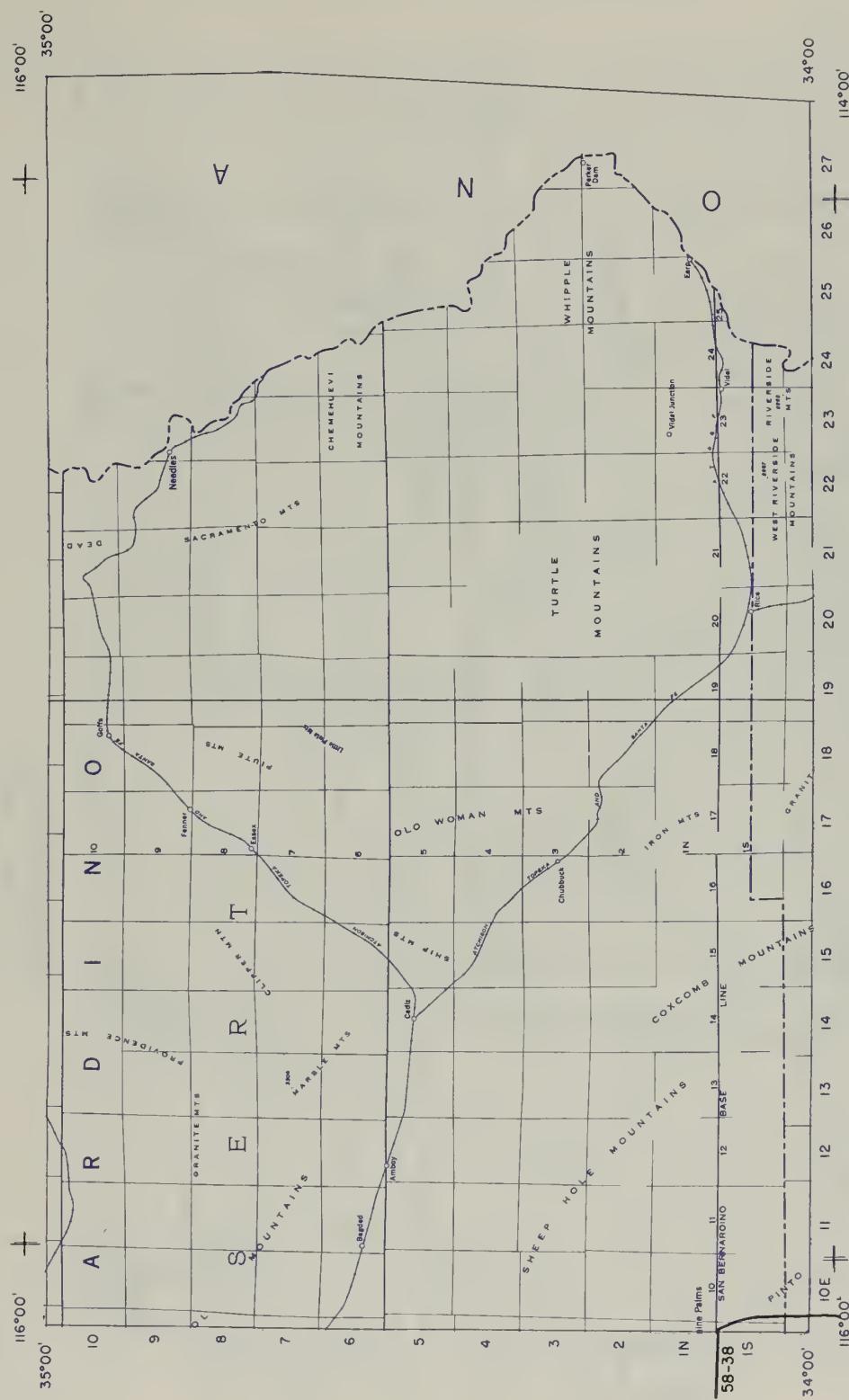
**LOS ANGELES SHEET
INDEX MAP 3 OF 3**



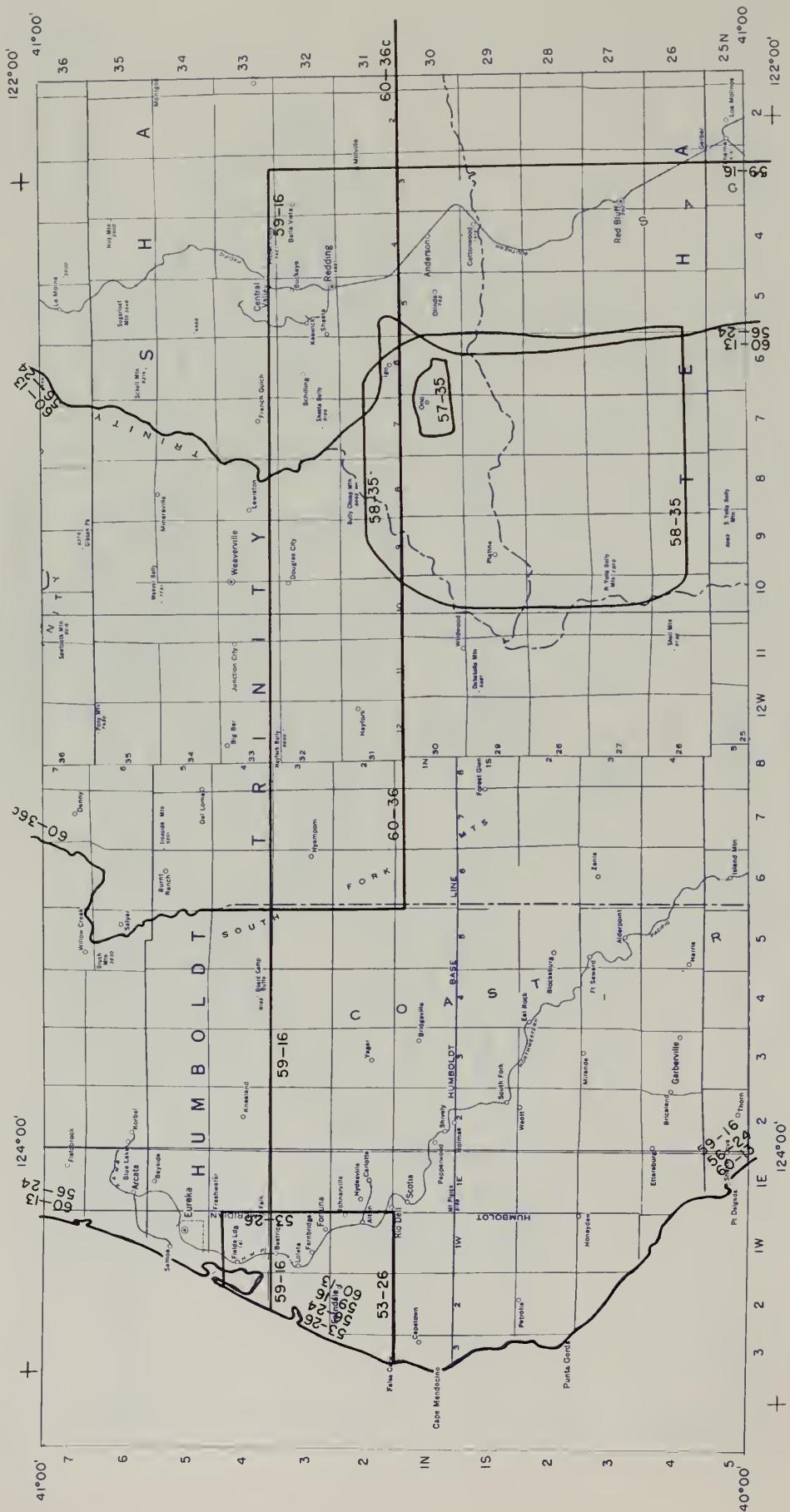
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INDEX MAP 1 OF 2



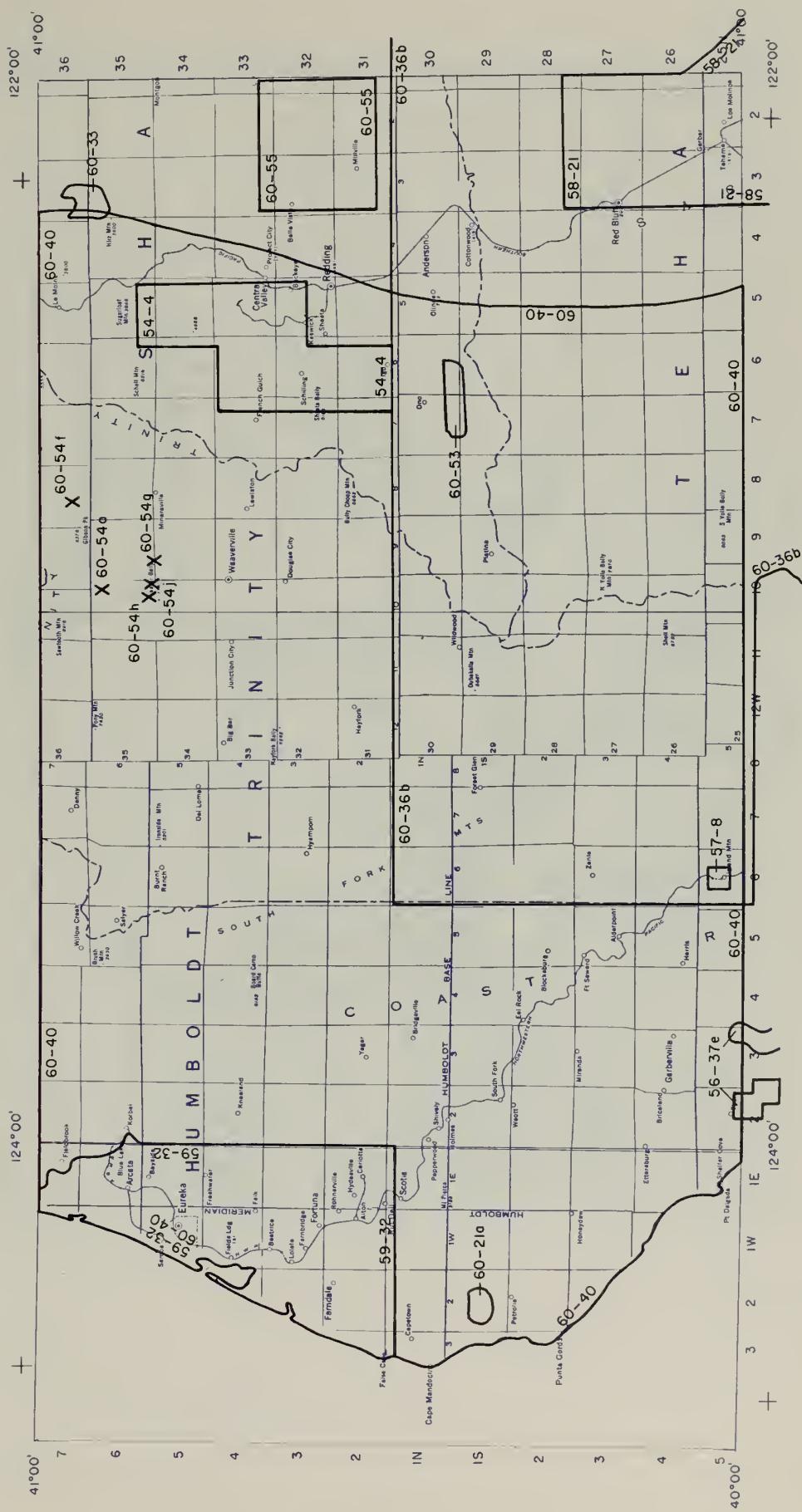
MARIPOSA SHEET
INDEX MAP 2 OF 2



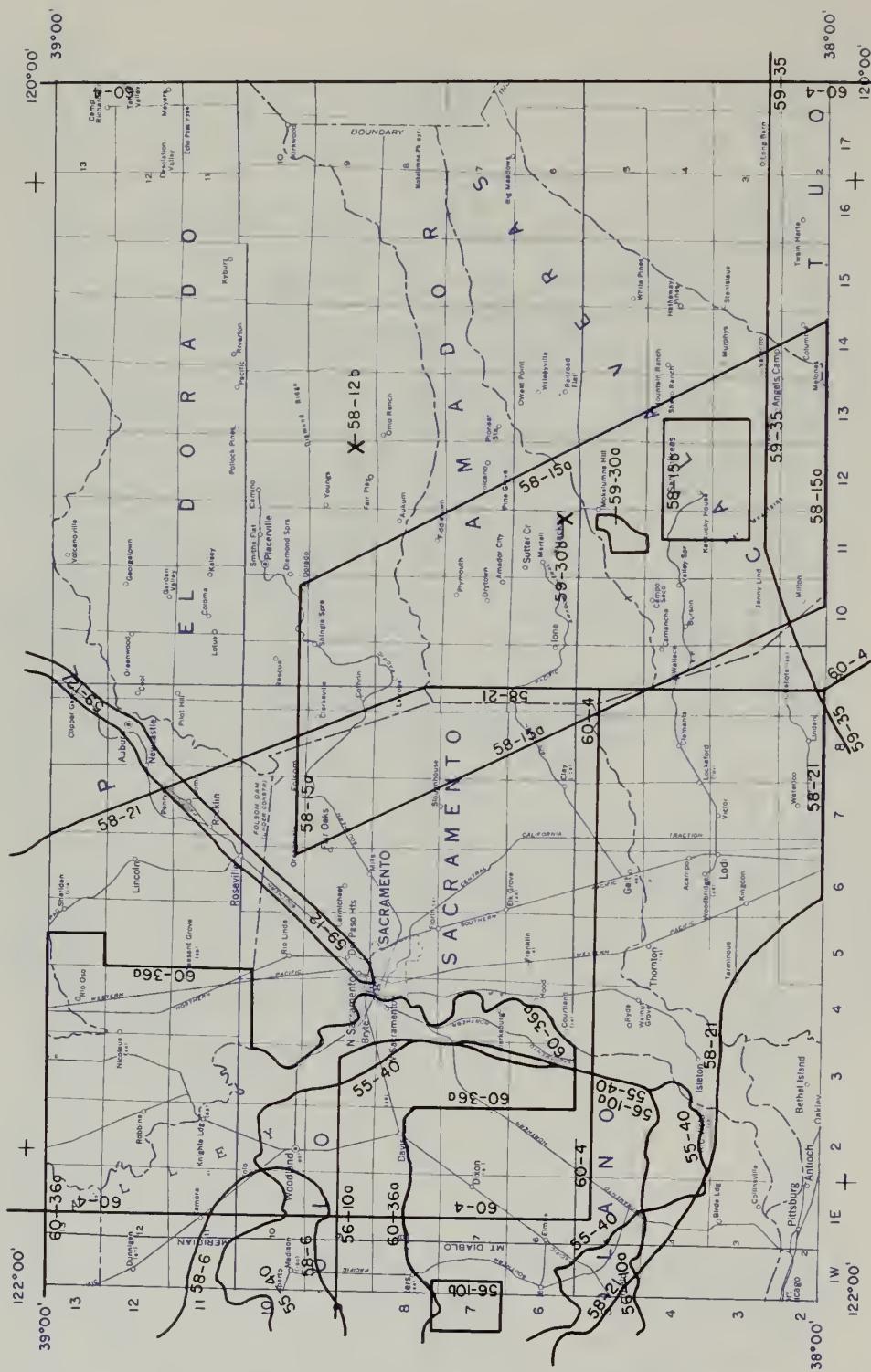
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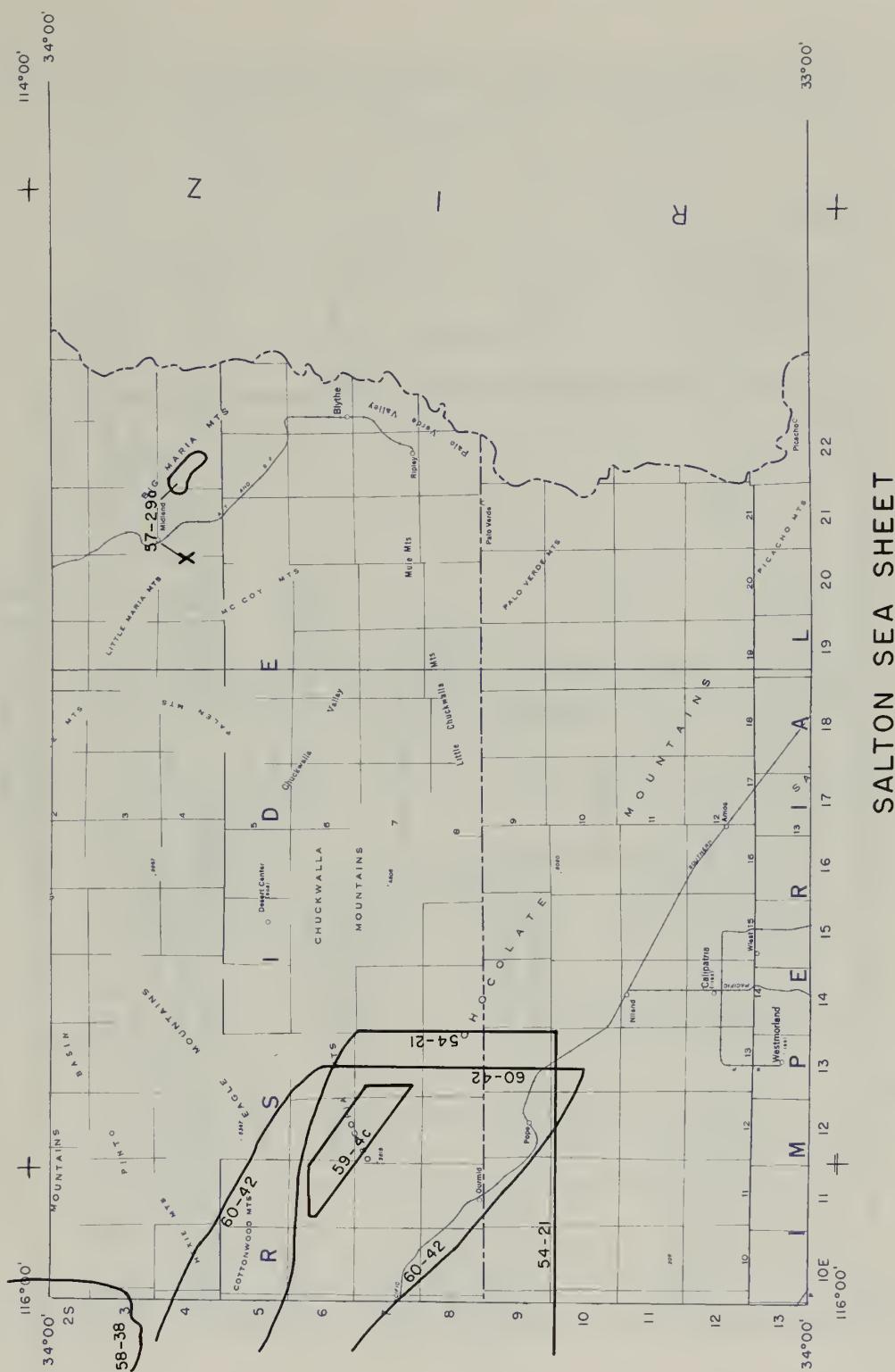
REDDING SHEET
INDEX MAP 1 OF 2



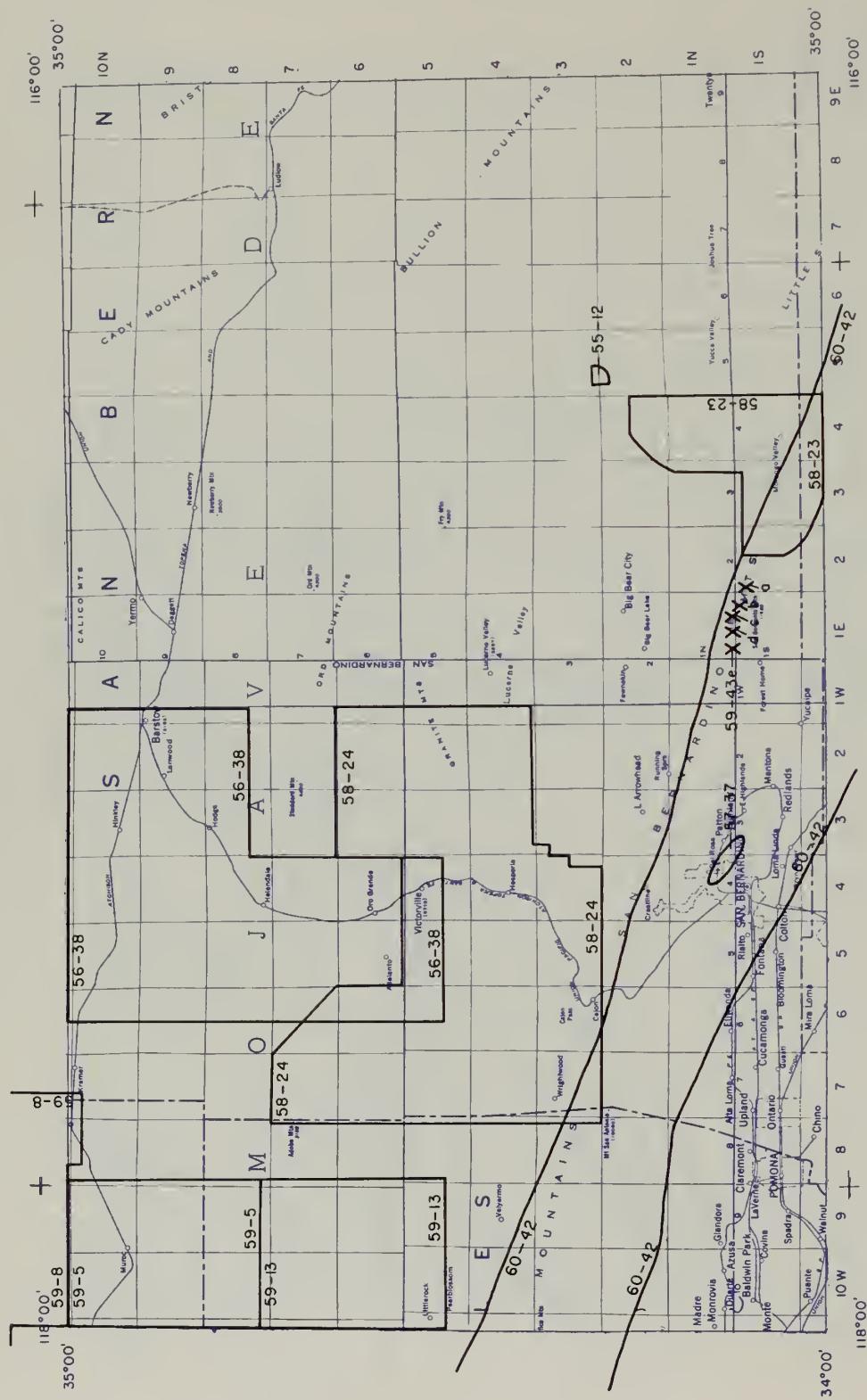
REDDING SHEET
INDEX MAP 2 OF 2



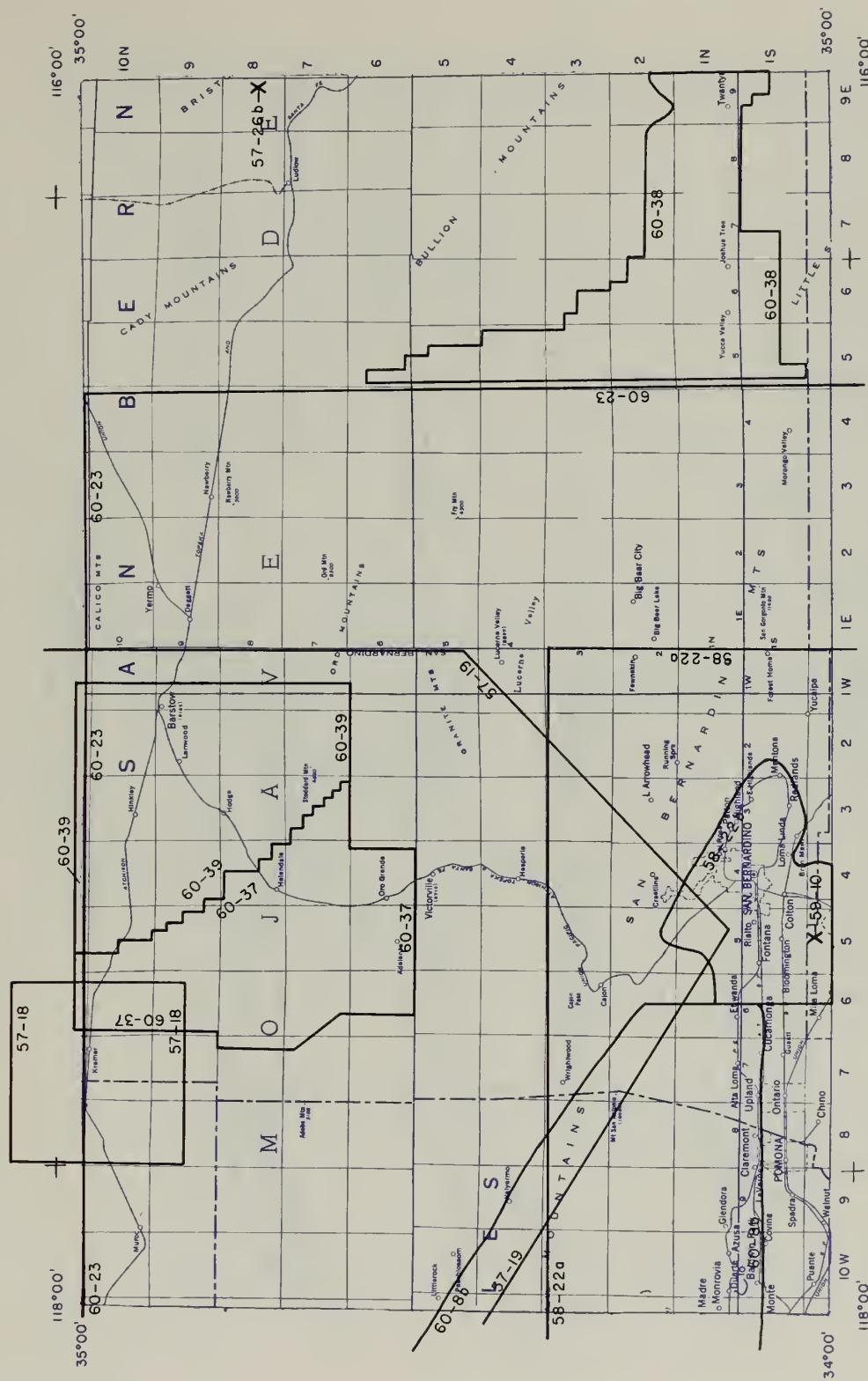
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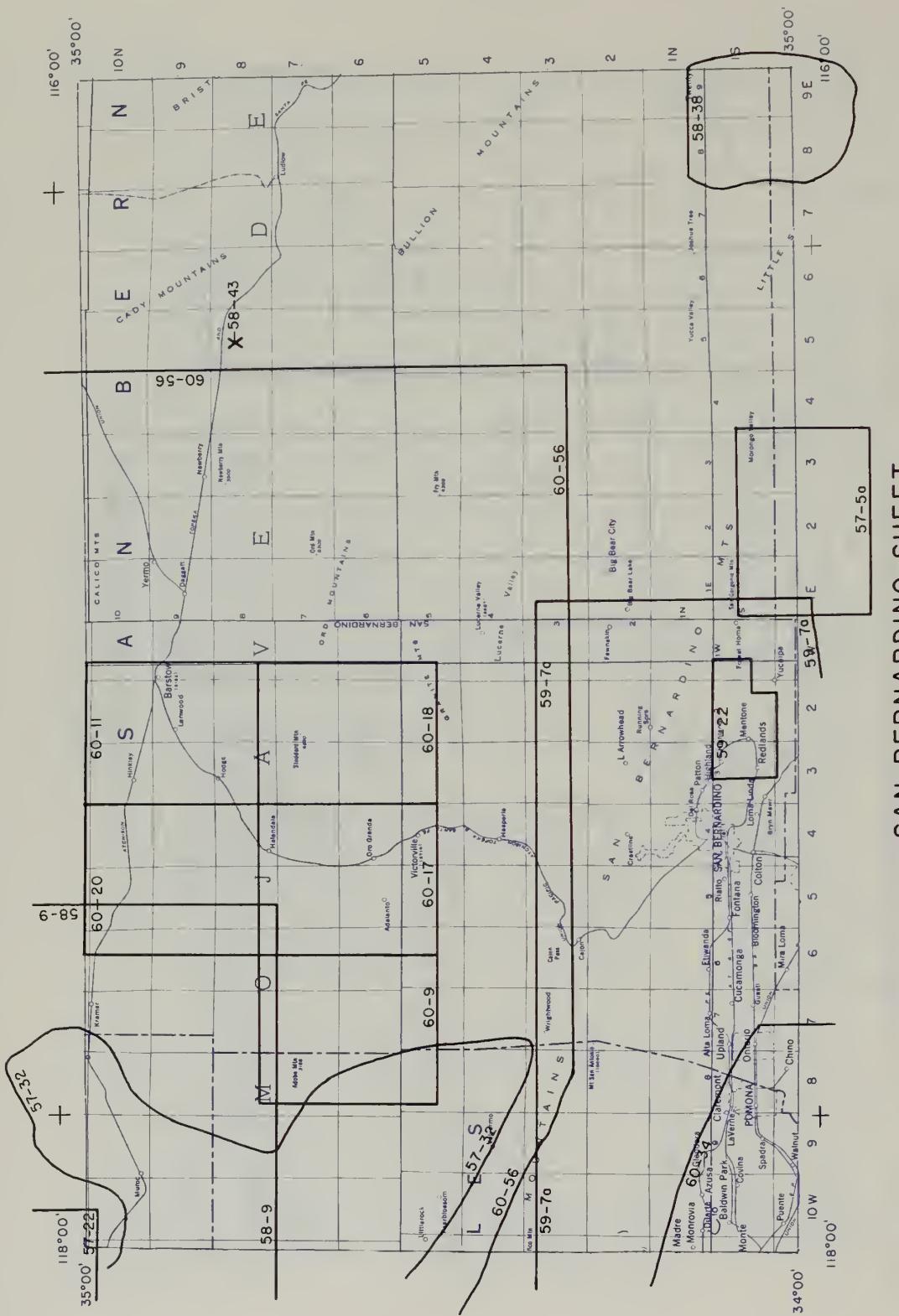
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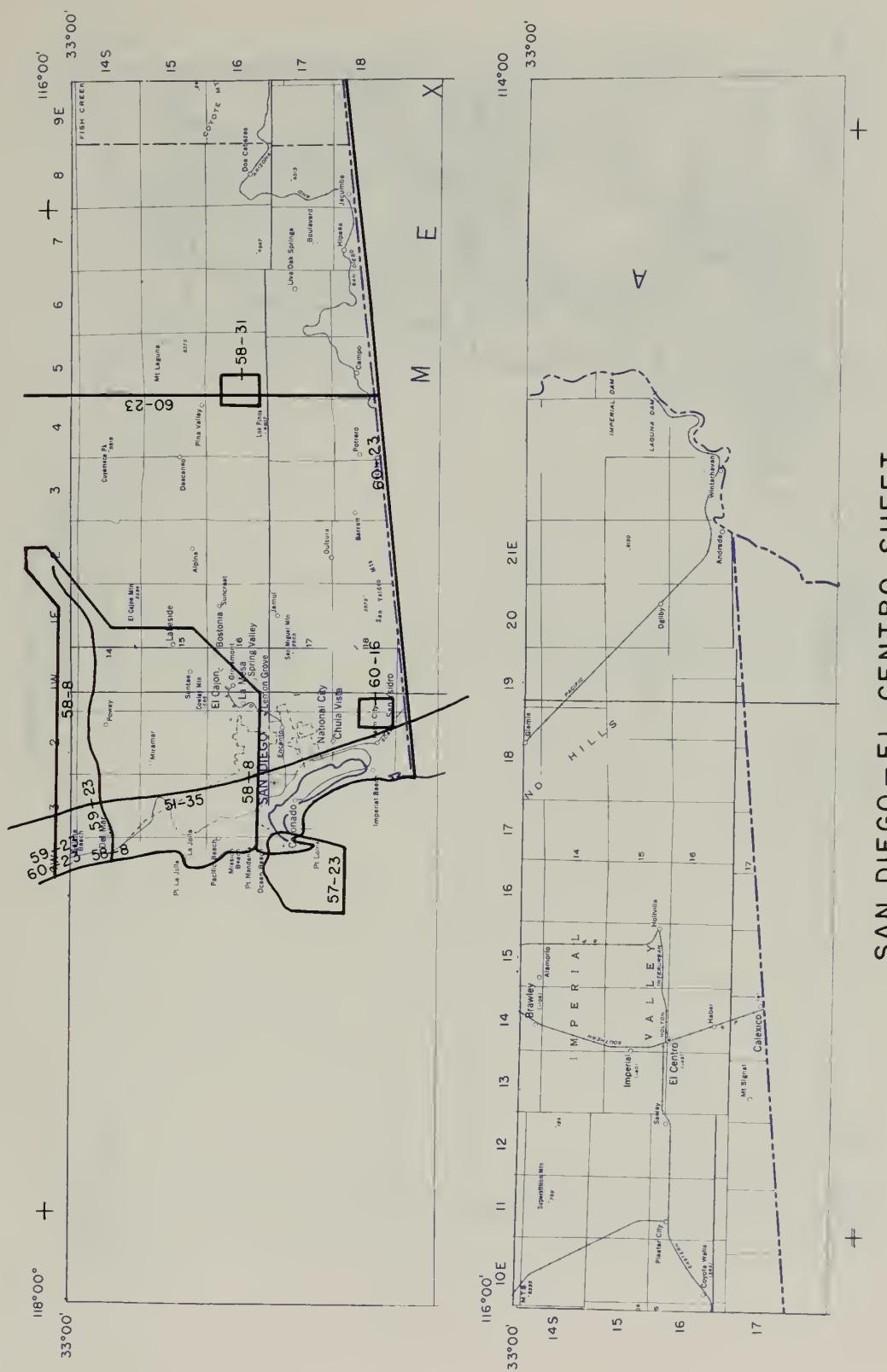
SAN BERNARDINO SHEET
INDEX MAP I OF 3



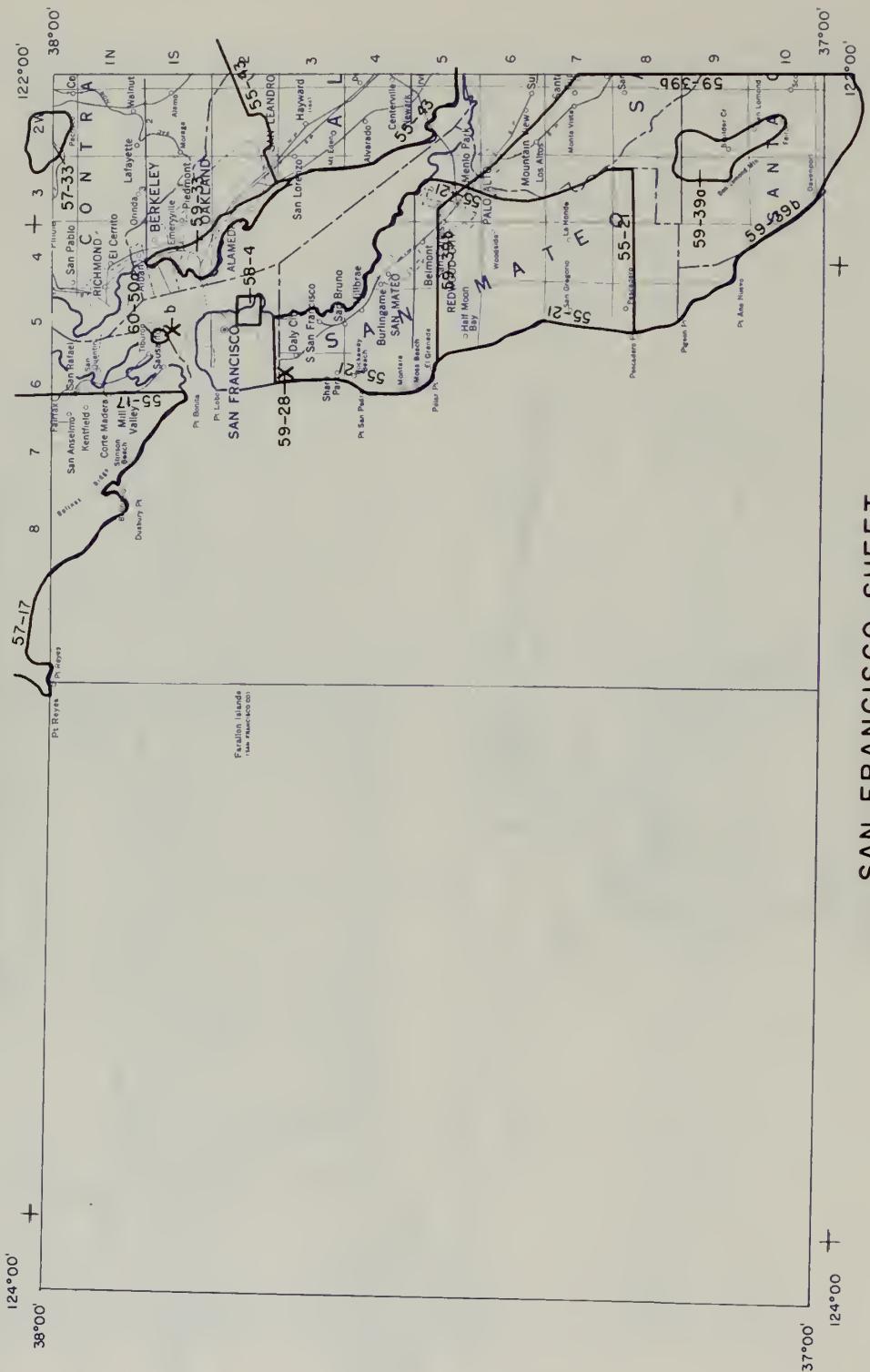
SAN BERNARDINO SHEET
INDEX MAP 2 OF 3



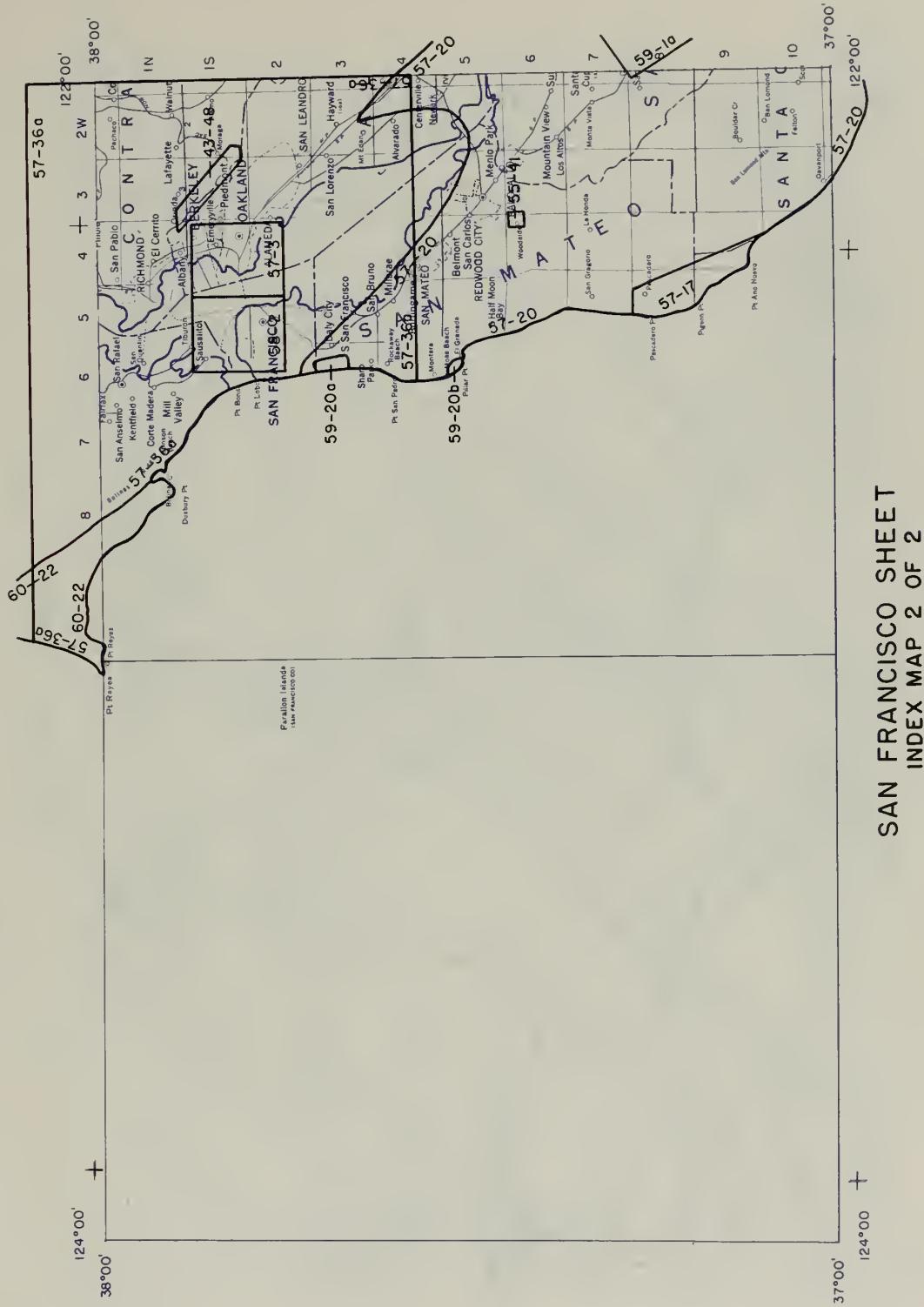
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INDEX MAP 3 OF 3



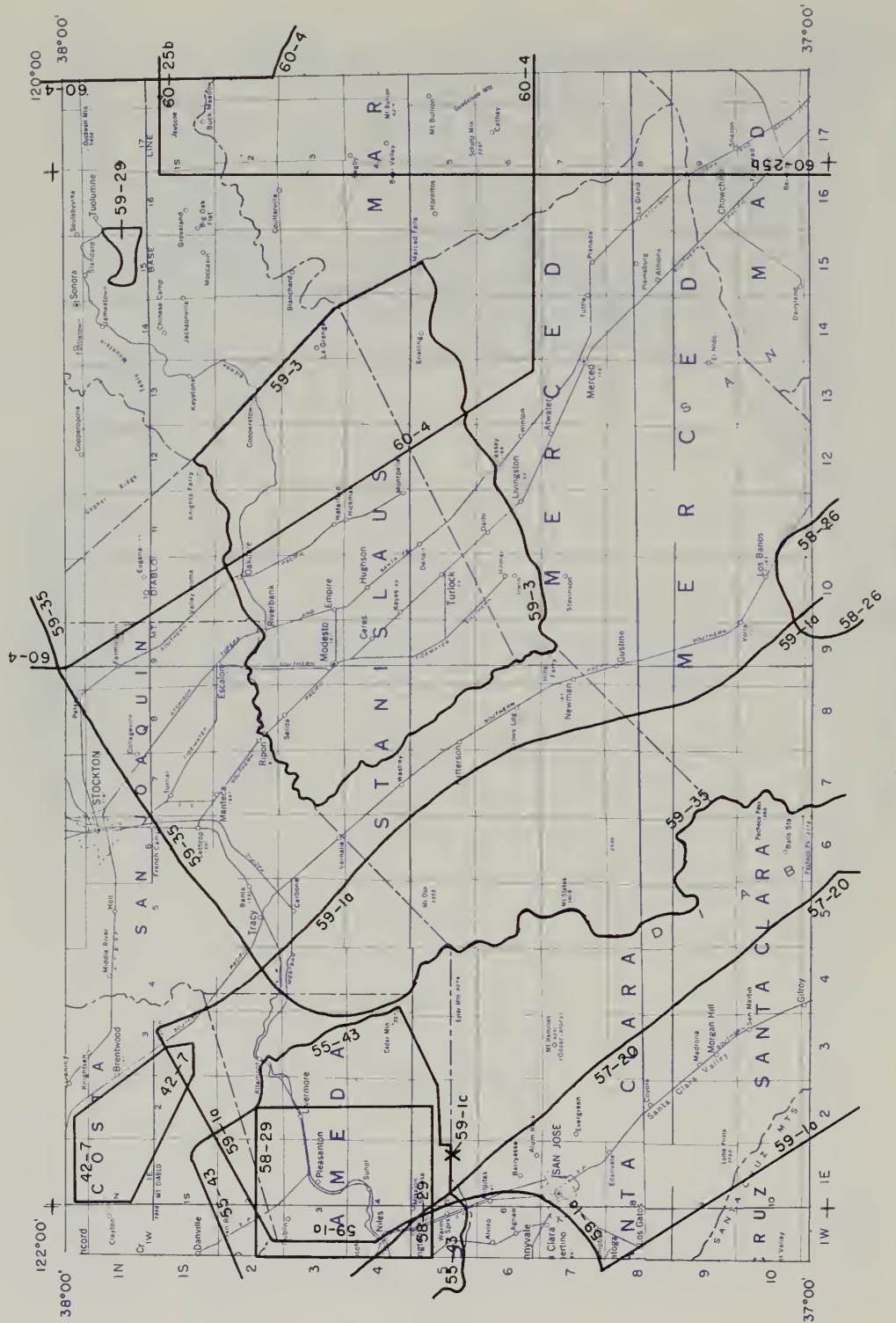
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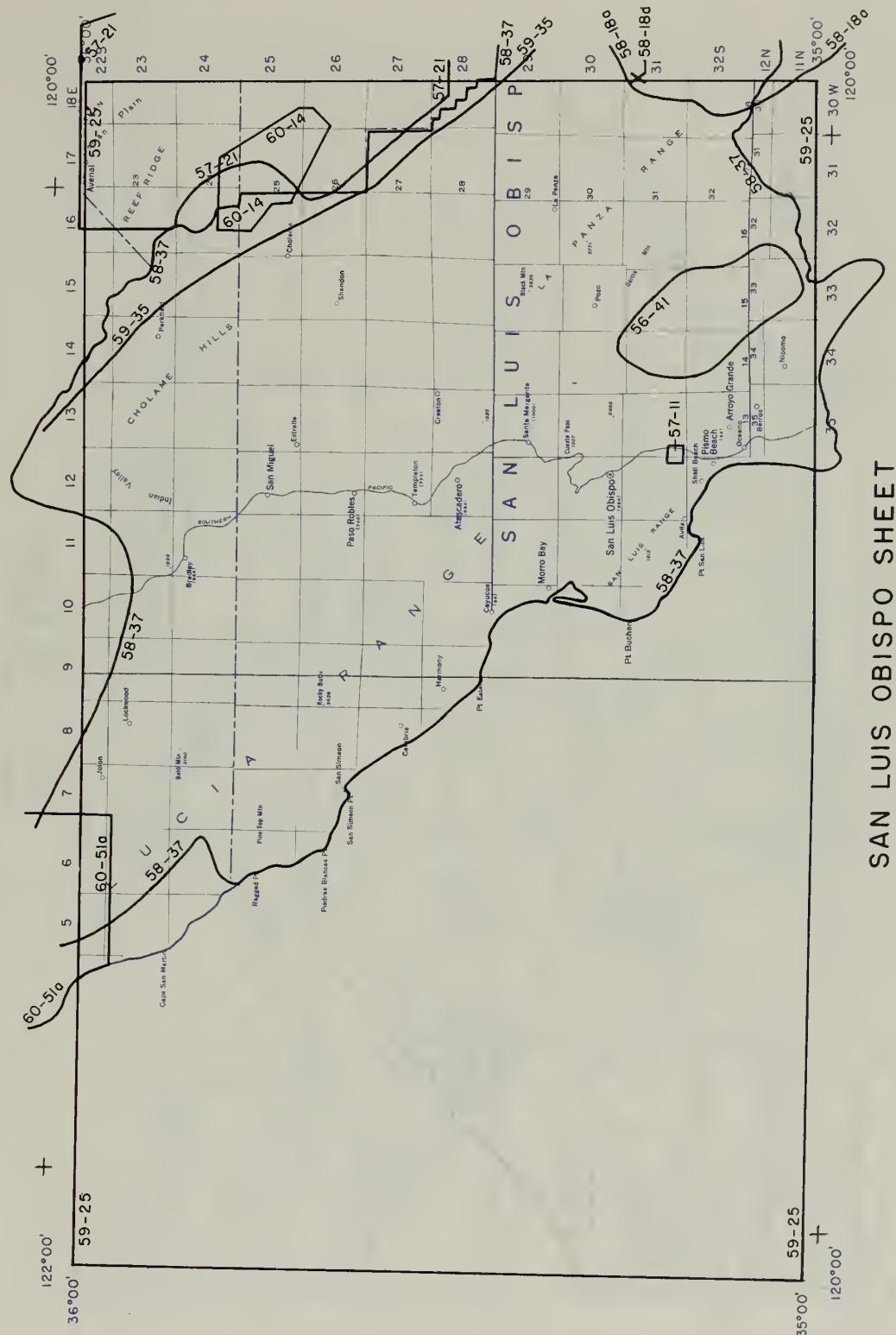
SAN FRANCISCO SHEET
INDEX MAP I OF 2



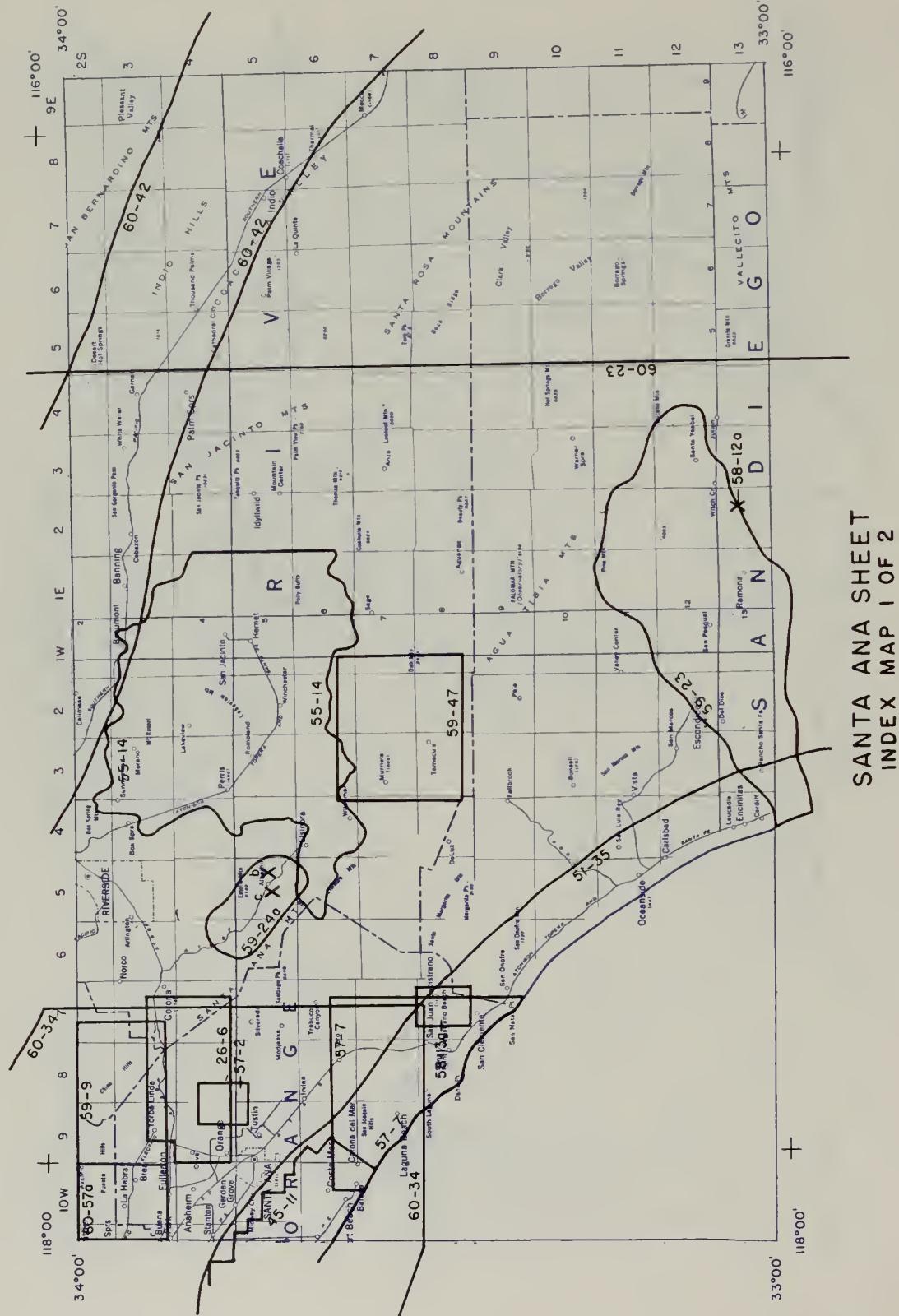
SAN FRANCISCO SHEET
INDEX MAP 2 OF 2



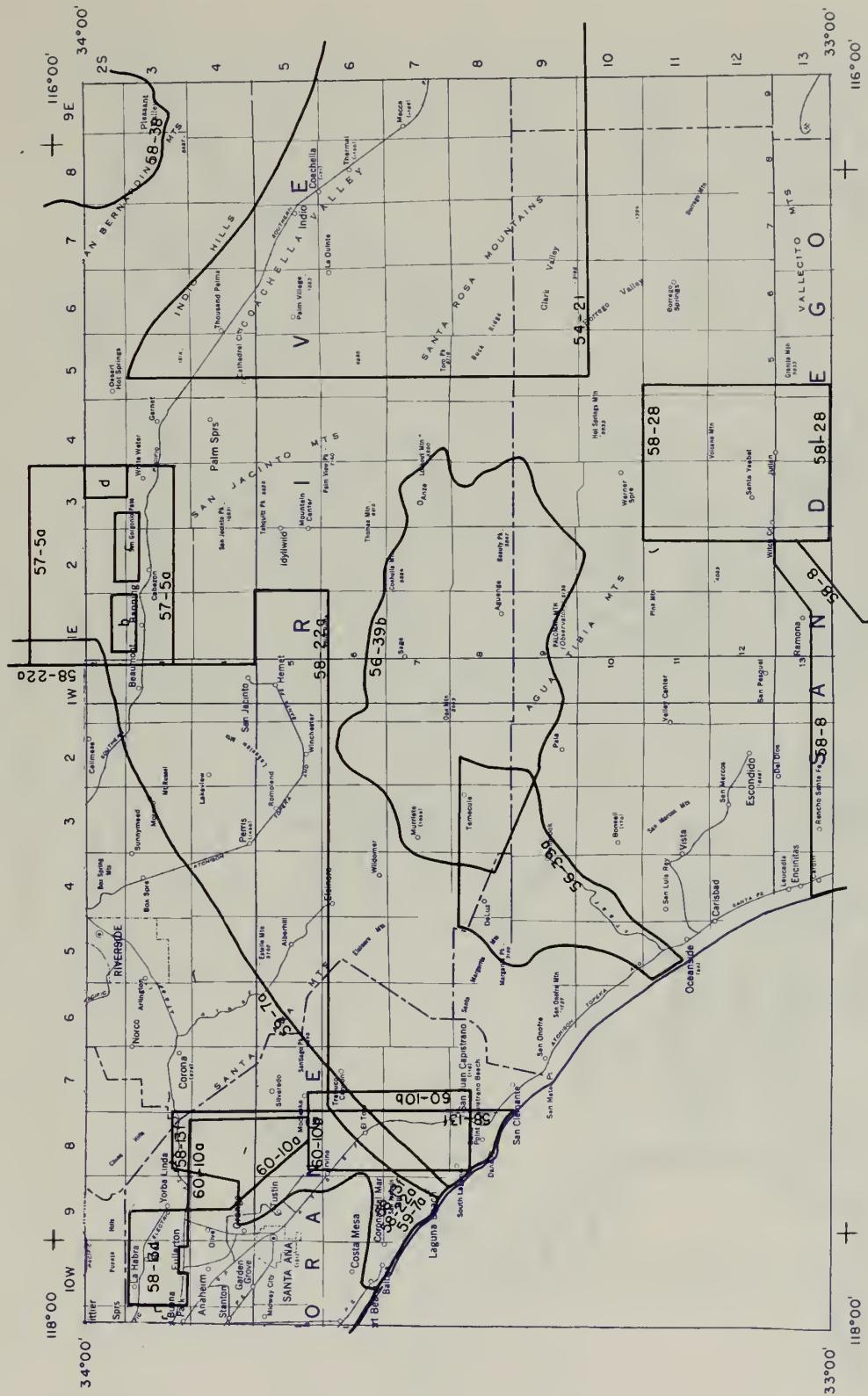
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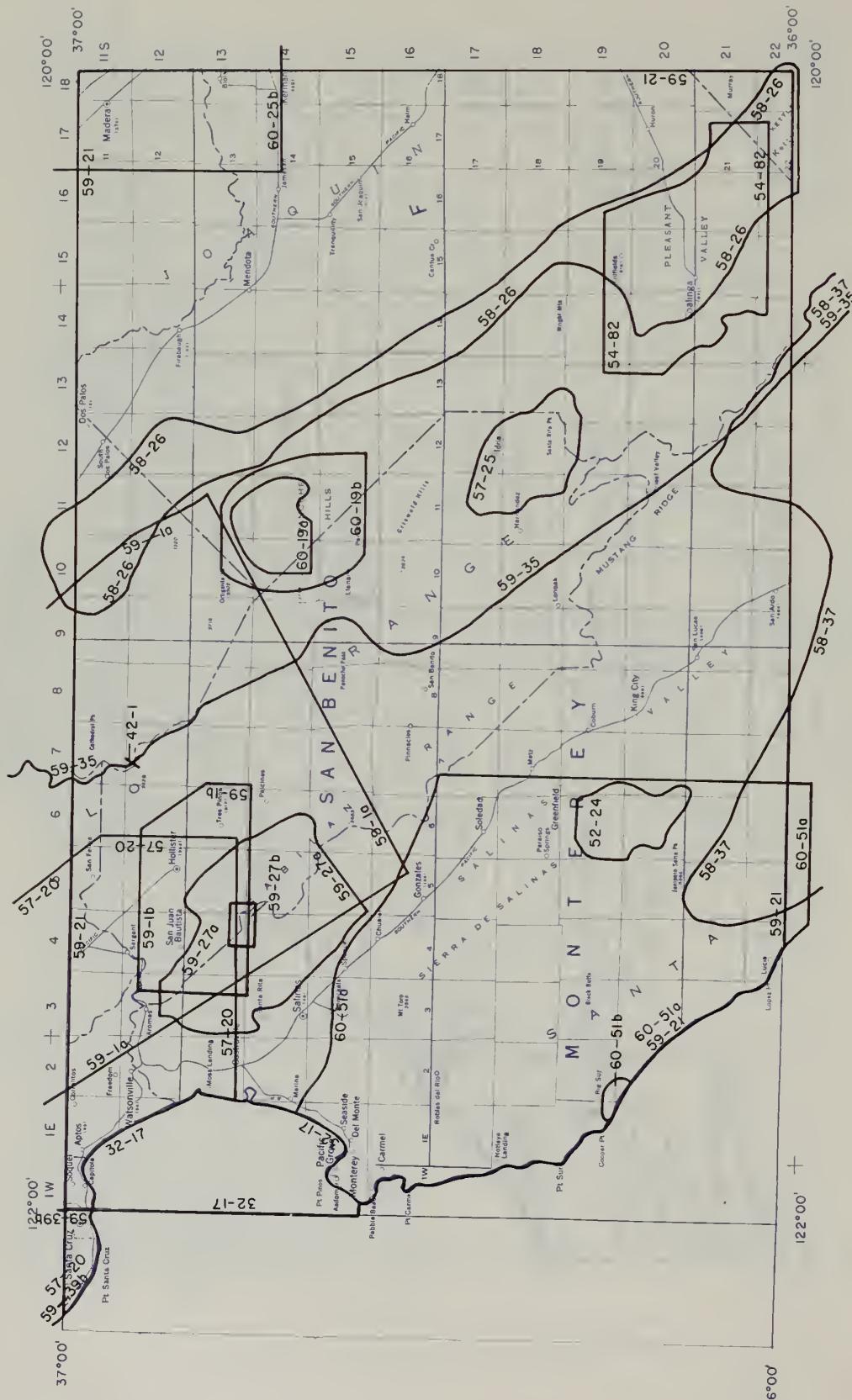
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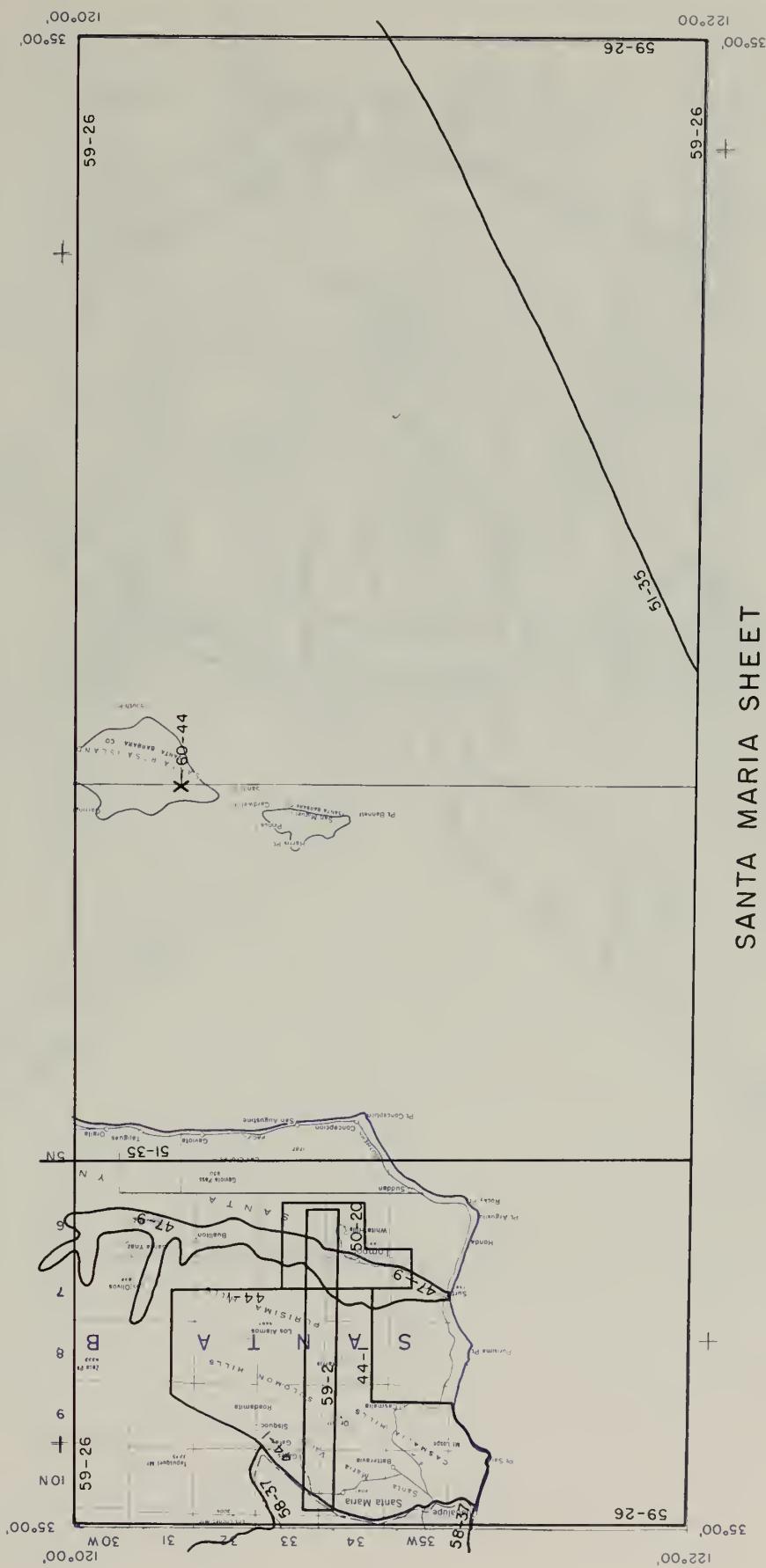
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INDEX MAP I OF 2



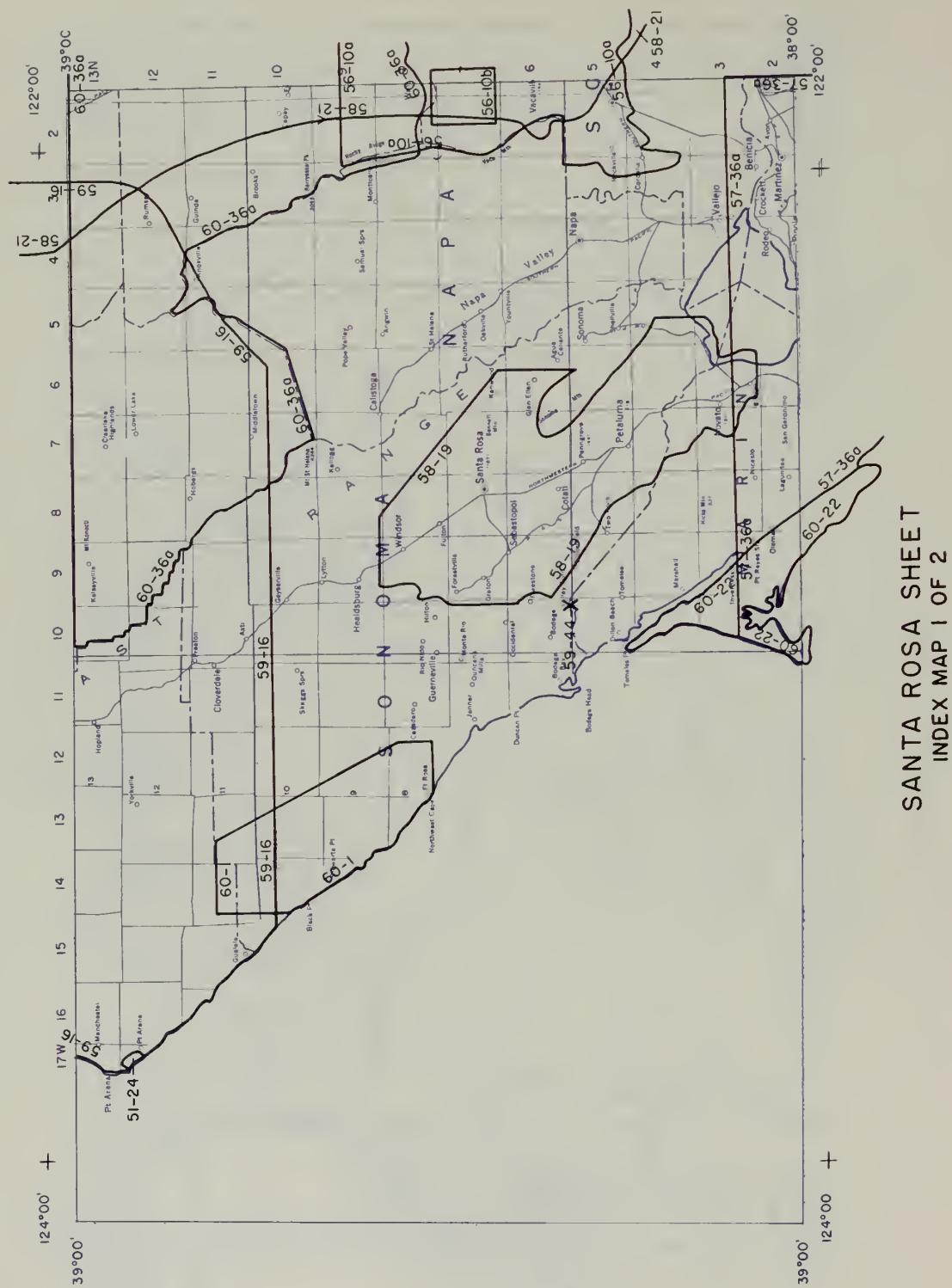
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INDEX MAP 2 OF 2

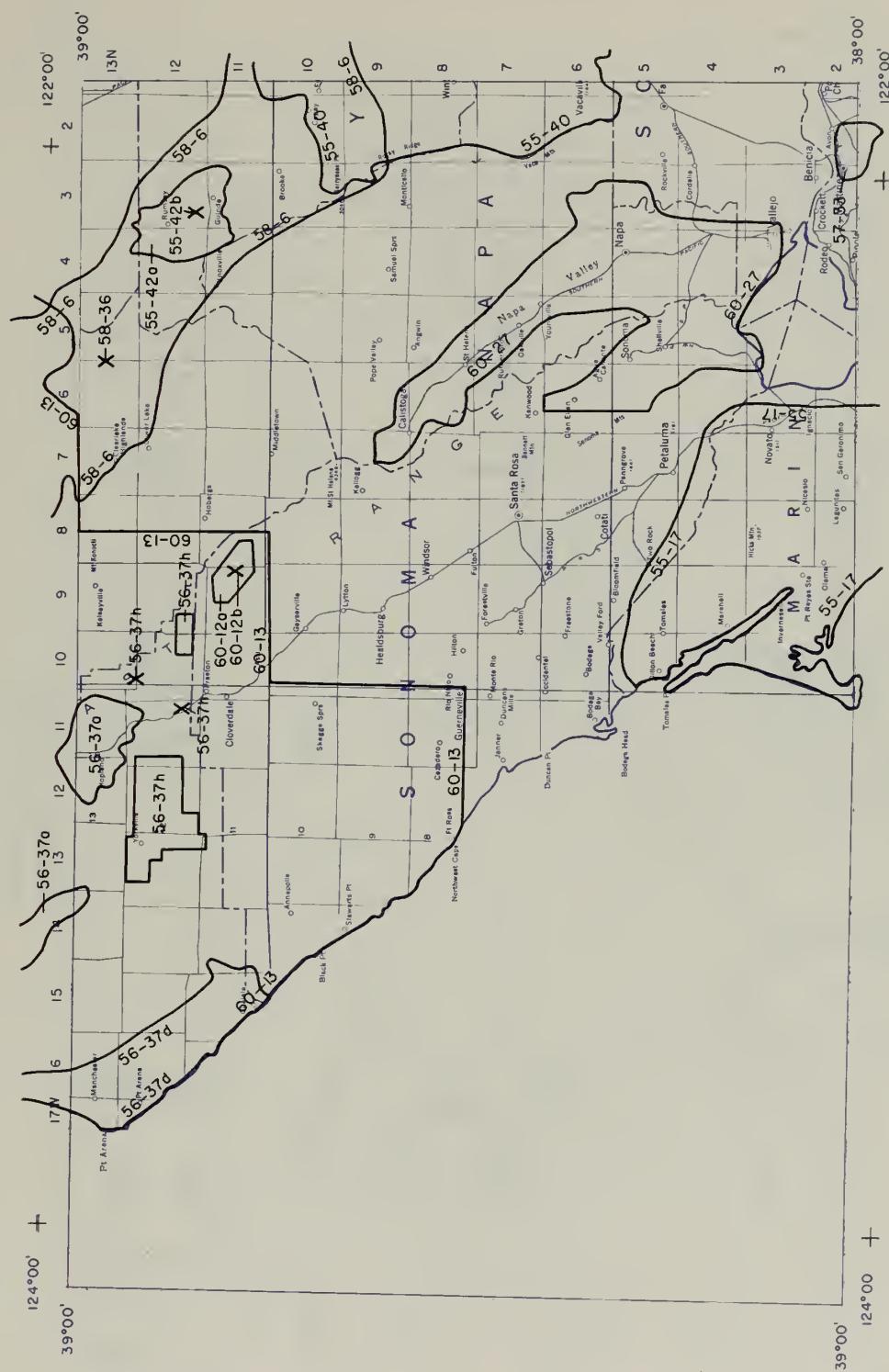


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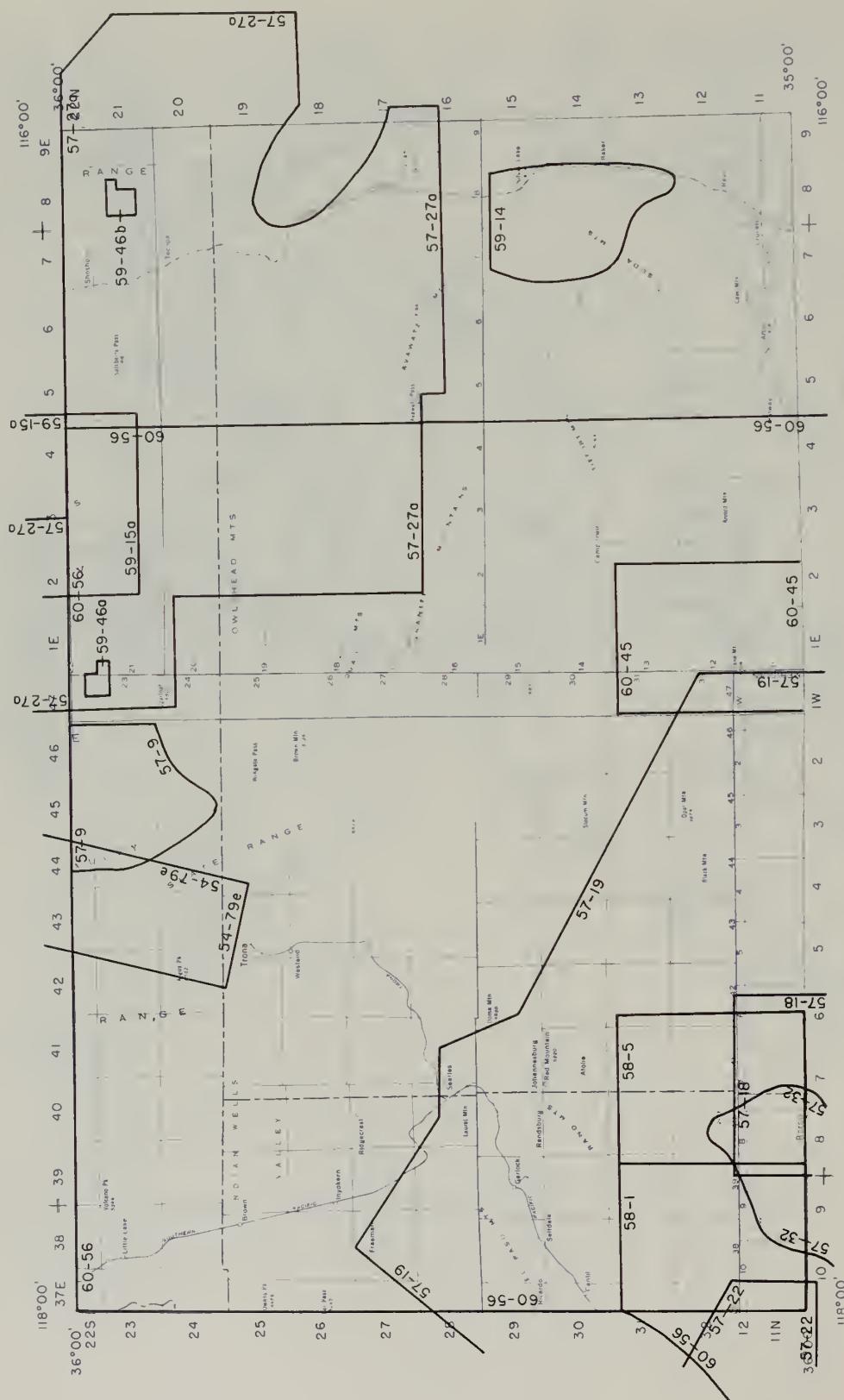


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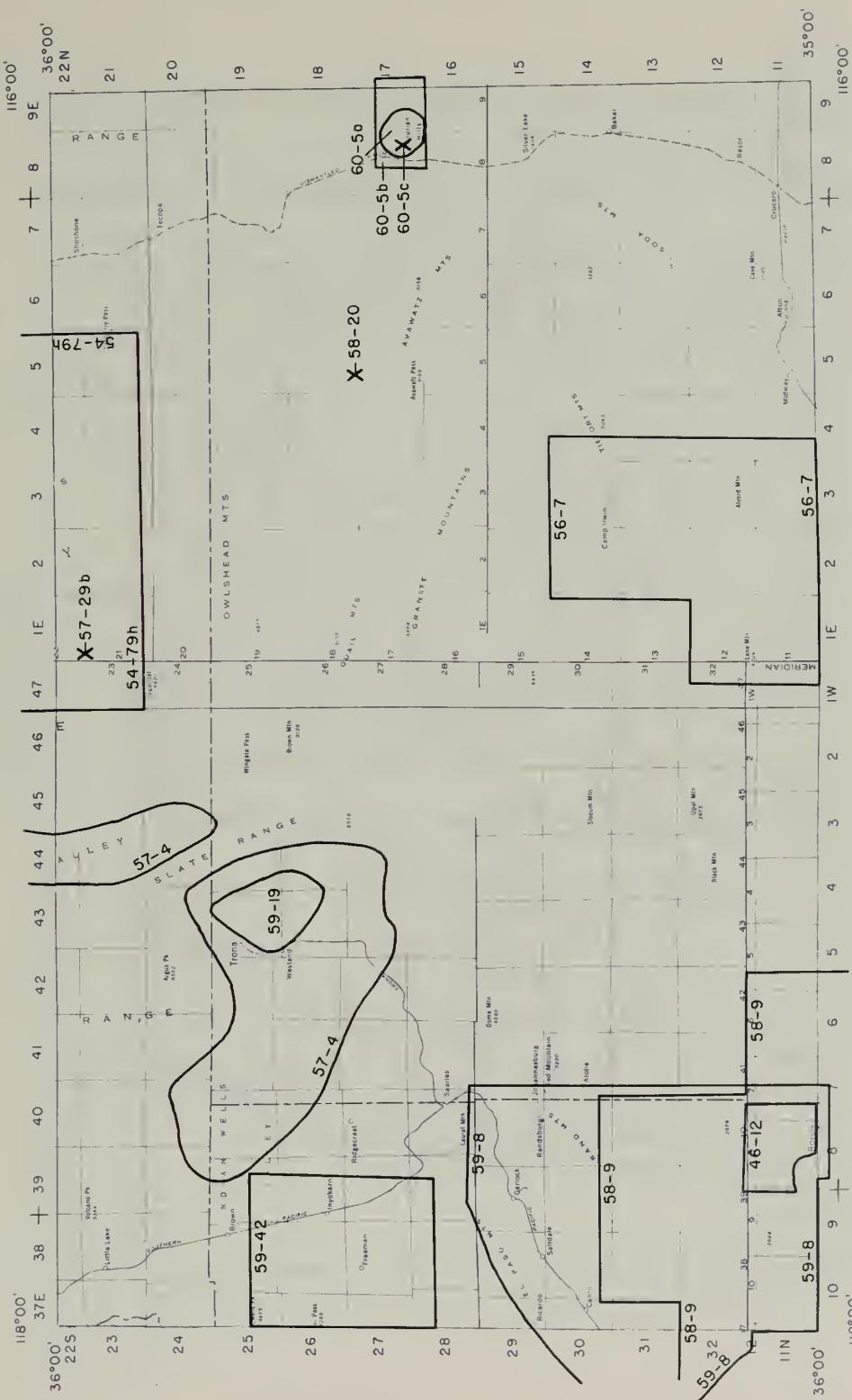




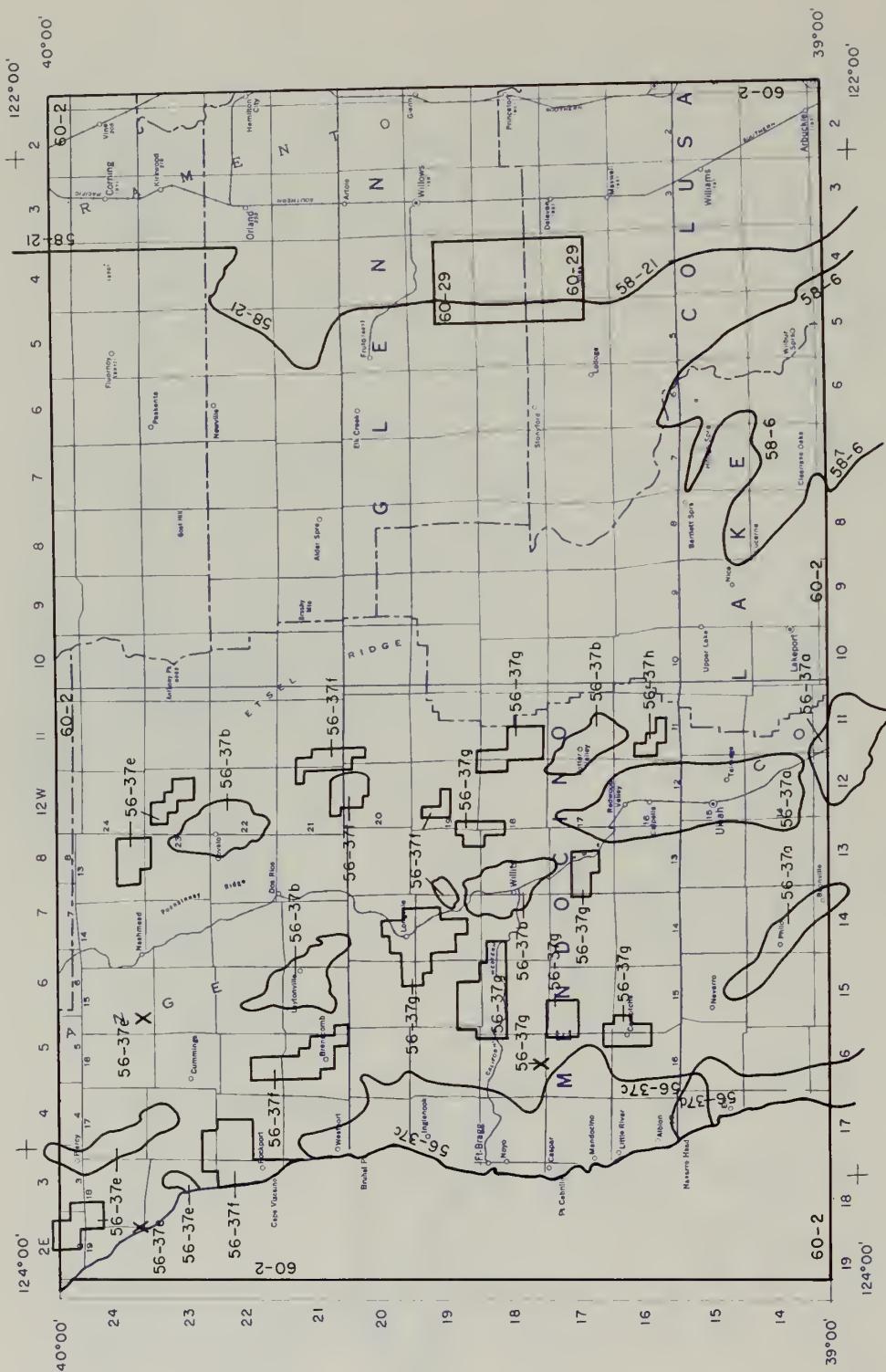
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INDEX MAP 2 OF 2



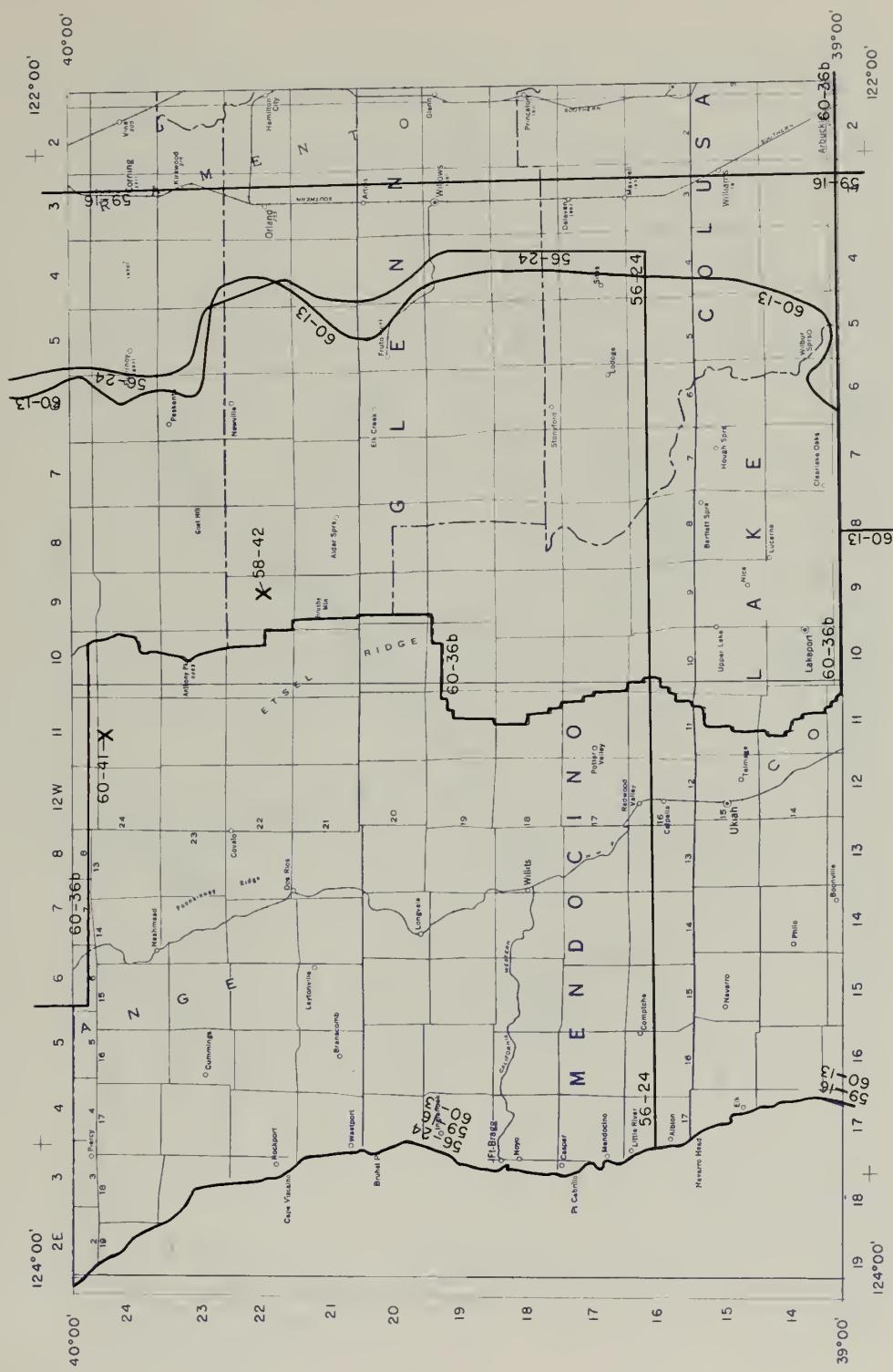
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INDEX MAP 1 OF 2



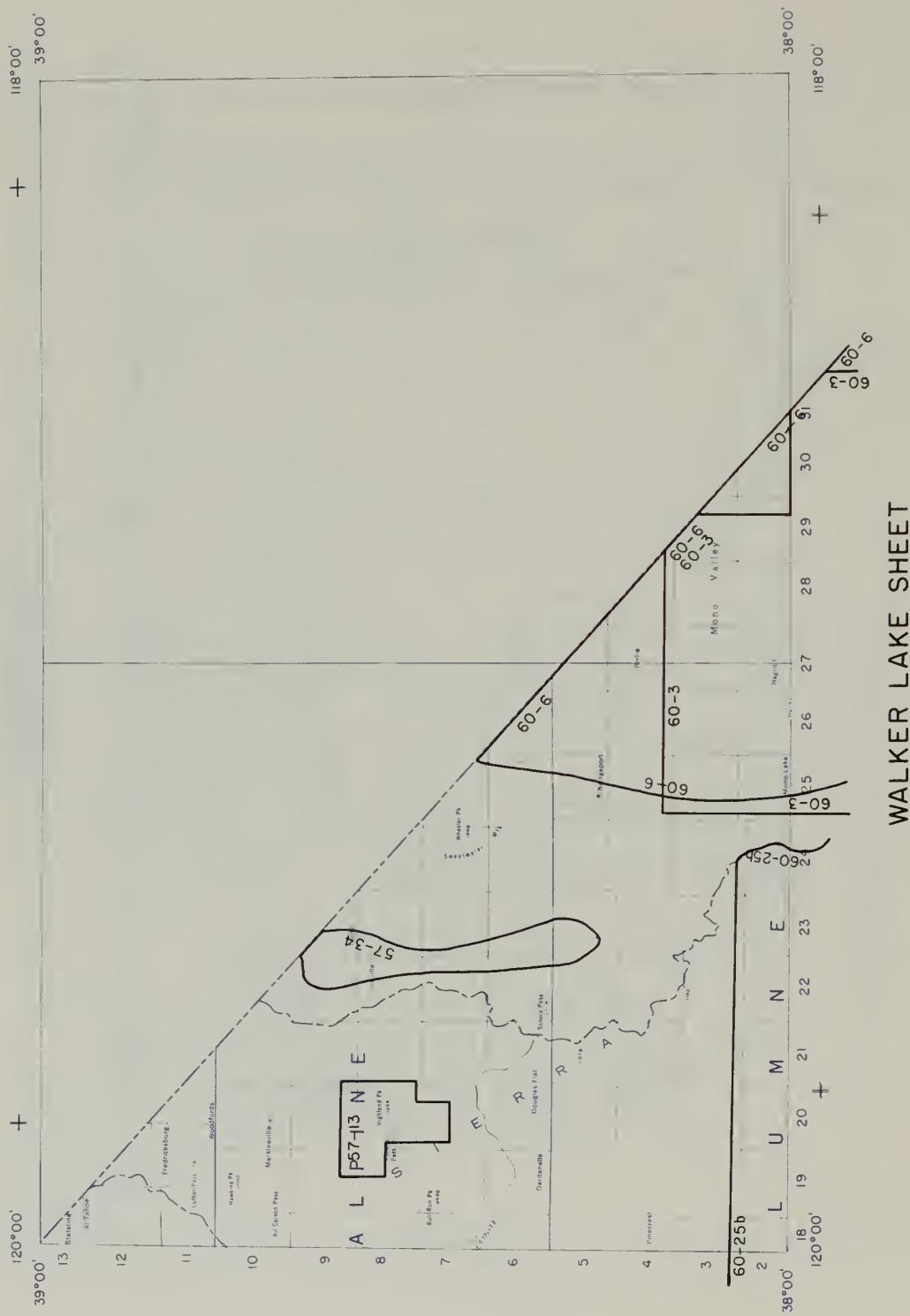
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INDEX MAP 2 OF 2



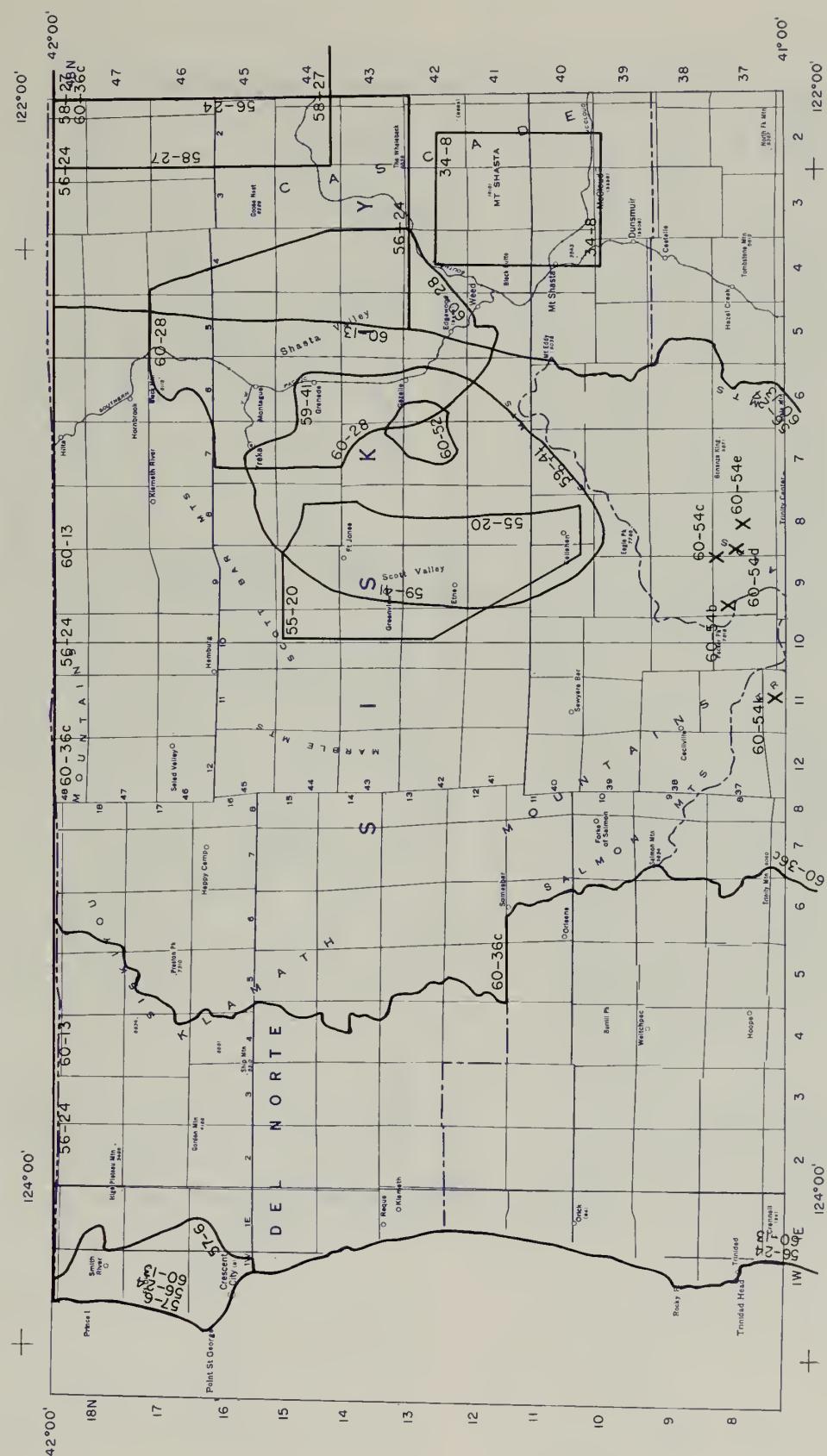
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INDEX MAP 1 OF 2



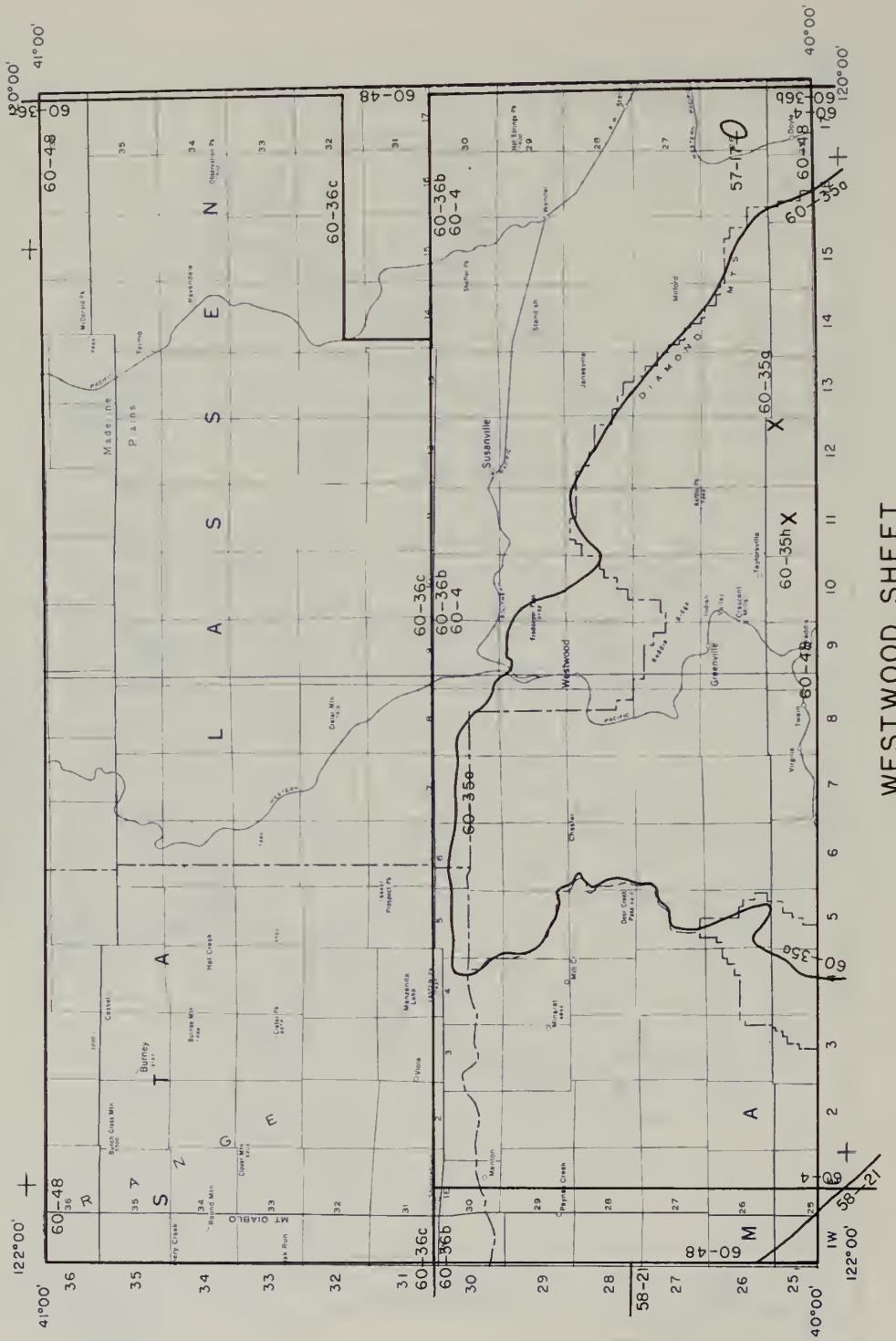
UKIAH SHEET
INDEX MAP 2 OF 2



WALKER LAKE SHEET



WEED SHEET



WESTWOOD SHEET

BIBLIOGRAPHY OF GEOLOGIC MAPS OF CALIFORNIA

26-6 Calif. Div. Mines, 1953, Geologic map of the northern Santa Ana Mountains: Mineral Information Service, v. 6, no. 10, p. 5. Map—1:250,000.

27-1 Stock, C., 1935, Exiled elephants of the Channel Islands, California: *Scientific Monthly*, v. 41, no. 3, p. 205-214. Fig. 2—1:250,000.

32-14 Calif. Div. Mines, 1953, Geologic log for Ventura basin field trip, Los Angeles to Wheeler Springs: Mineral Information Service Supplement, Feb. 1953. (c) map, p. 2-3—1:375,000 (map adapted from Guidebook 15, International Geological Congress, 1932).

32-17 Galliher, E. Wayne, 1932, Sediments of Monterey Bay, California: Calif. Div. Mines Mining in California, v. 28, no. 1, p. 42-79. Pl. 3—1:135,000 (approx.).

34-8 Williams, Howel, 1934, Mount Shasta, California: Sonderabdruck aus der Zeitschrift für Vulkanologie (Volcanological Review), Band XV, p. 225-253. Pl. 16—1:240,000.

42-1 Goldman, Harold B., 1957, Antimony: Calif. Div. Mines Bull. 176, p. 35-44. Fig. 2—1:12,000.

42-7 Kanaya, T., 1957, Eocene diatom assemblages from the Kellogg and "Sidney" shales, Mt. Diablo area, California: *Science Reports of the Tohoku University, Sendai, Japan, Second Series (Geology)*, v. 28, p. 27-124. Fig. 2—1:145,000.

43-48 Richey, K. A., 1943, A marine invertebrate fauna from the Orinda, California, formation: *Calif. Univ. Pubs. Geol. Sci.*, v. 27, p. 25-36. Fig. 1—1:102,000.

44-1 Woodring, W. P., and Bramlette, M. N., 1950, Geology and paleontology of the Santa Maria district, California; U. S. Geol. Survey Prof. Paper 222. Pl. 1—1:24,000 (colored photogeologic map—5 sheets).

45-11 Poland, J. F., 1959, Hydrology of the Long Beach-Santa Ana area, California: U. S. Geol. Survey Water-Supply Paper 1471. Pl. 3—1:31,680.

46-4 Oakeshott, Gordon B., 1957, Diatomite: Calif. Div. Mines Bull. 176, p. 183-193. Fig. 3—1:70,000.

46-12 Smith, George I., Alniond, Hy, and Sawyer, D. L., 1958, Sassolite from the Kramer borate district, California: *Am. Mineralogist*, v. 43, no. 11-12, p. 1068-1078. Fig. 1—1:125,000.

47-9 Wilson, H. D., Jr., 1959, Ground-water appraisal of Santa Ynez River basin, Santa Barbara County, California, 1945-52: U.S. Geol. Survey Water-Supply Paper 1497. Pl. 1—1:48,000; pl. 2—1:31,680; pl. 6—1:31,680; pl. 7—1:62,500.

50-20 Oakeshott, Gordon B., 1957, Diatomite: Calif. Div. Mines Bull. 176, p. 183-193. Fig. 2—1:100,000 (approx.).

51-24 Jennings, Charles W., 1957, Asphalt and bituminous rock: Calif. Div. Mines Bull. 176, p. 59-70. Fig. 10—1:20,000.

51-35 Bromery, R. W., Emery, K. O., and Balsley, J. R., Jr., 1960, Reconnaissance airborne magnetometer survey off southern California: U.S. Geol. Survey Geophysical Investigations Map GP-211. Fig. 1—1:1,000,000 (revised from original).

Emery, K. O., 1954, General geology of the offshore area, southern California: Calif. Div. Mines Bull. 170, p. 107-111. Fig. 1—1:2,000,000 (revised from original).

Emery, K. O., 1960, The sea off southern California: John Wiley & Sons, Inc., New York, 366 p. Figs. 62 & 68—1:2,500,000 (revised from original).

52-24 Society of Economic Paleontologists and Mineralogists, 1952, Reliz Canyon: Field Trip, S.E.P.M., May 10, 1952. Map—1:62,500.

53-24 Goodwin, J. G., 1958, Mines and mineral resources of Tulare County, California: *Calif. Jour. Mines and Geology*, v. 54, no. 3, p. 317-492. (l) fig. 16—1:2,160.

Carlisle, D., and Cleveland, George B., 1958, Plants as a guide to mineralization: *Calif. Div. Mines Special Rept.* 50. (l) fig. 8—1:1,030.

53-26 Geological Society of Sacramento, 1960, Northwestern California; a traverse of the Klamath uplift, northern Coast Ranges, and Eel River basin: Annual Field Trip, G.S.S., June 3-5, 1960. Pl. 5—1:78,000.

53-28 Calif. Water Resources Board, 1953, revised 1956, Geology and ground-water of Ventura County, California; Appendix B of Ventura County investigation: Bull. no. 12, v. 2, p. B1-B127. (a) pl. B-1A—1:156,000; (b) pl. B-1B—1:156,000; (c) pl. B-1C—1:156,000.

54-4 Kinkel, A. R., Jr., Hall, Wayne E., and Albers, J. P., 1957, Geology and base-metal deposits of the west Shasta copper-zinc district, Shasta County, California: *Calif. Div. Mines Mineral Information Service*, v. 10, no. 8, p. 14-17. Map—1:281,250.

O'Brien, J. C., 1957, Copper: *Calif. Div. Mines Bull.*, 176, p. 169-182. Fig. 2—1:325,000.

54-21 Society of Economic Paleontologists and Mineralogists—American Association of Petroleum Geologists, 1958, Imperial Valley: Annual Spring Field Trip, S.E.P.M.—A.A.P.G., May 2-3, 1958. Map 1—1:375,000.

54-36 Sharp, Robert P., 1957, Geomorphology of Cima Dome, Mojave Desert, California: *Geol. Soc. America Bull.*, v. 68, no. 3, p. 273-290. Fig. 2—1:192,000.

54-37 Calif. Dept. Water Resources, 1959, Water quality and water quantity problems, Ventura County: Div. Resources Planning Bull. no. 75, v. 1. Pl. 8—1:425,000.

54-49 Lydon, Philip A., 1957, Titanium: Calif. Div. Mines Bull. 176, p. 647-654. Fig. 2—1:140,000.

54-75 Pray, Lloyd C., 1957, Rare earth elements: Calif. Div. Mines Mineral Information Service, v. 10, no. 6, p. 1-8. (b) map—1:4,000.
Pray, Lloyd C., 1957, Rare earth elements: Calif. Div. Mines Bull. 176, p. 467-474. (b) fig. 2—1:4,800.

54-79 Calif. Div. Mines, 1958, Death Valley: Mineral Information Service, v. 11, no. 10, p. 1-9. (e) map 1—1:250,000; (f) map 2—1:250,000; (g) map 3—1:250,000; (h) map 4—1:250,000.

54-82 Kahanovitz, Yona, and Manning, John C., 1954, Ground-water hydrology of Pleasant Valley, Fresno County, California: Stanford Univ. Pubs. Geol. Sci., v. 4. Fig. 2—1:250,000.

55-12 Troxel, Bennie W., 1957, Thorium: Calif. Div. Mines Bull. 176, p. 635-640. Fig. 3—1:20,400.

55-14 Calif. Dept. Water Resources, 1959, Geology of the San Jacinto and Elsinore units; Appendix B of Santa Ana River investigation: Bull. no. 15. Pl. B-1A & B-1B—1:125,000.

55-17 Oakeshott, Gordon B., 1959, San Andreas fault in Marin and San Mateo Counties: Calif. Div. Mines Special Rept. 57, p. 7-24. Fig. 2—1:270,000.

55-20 Mack, Seymour, 1958, Geology and ground-water features of Scott Valley, Siskiyou County, California: U.S. Geol. Survey Water-Supply Paper 1462. Pl. 1—1:62,500.
Calif. Dept. Water Resources, 1960, Klamath River basin investigation: Div. Resources Planning Bull. no. 83. Pl. 12—1:150,000.

55-21 Oakeshott, Gordon B., 1959, San Andreas fault in Marin and San Mateo Counties: Calif. Div. Mines Special Rept. 57, p. 7-24, Fig. 3—1:250,000.

55-40 Calif. Div. Water Resources, 1955, Geology of the Putah Creek cone area: Appendix E of Report to the California State Legislature on Putah Creek cone investigation. Pl. E-1—1:204,000.

55-41 Graham, J. J., and Classen, W. J., 1955, A lower Eocene foraminiferal faunule from the Woodside area, San Mateo County, California: Contributions from the Cushman Foundation for Foraminiferal Research, v. VI, part 1. Fig. 1—1:25,600 (geol. sketch map).

55-42 Calif. Water Resources Board, 1955, Geology: Appendix D of Interim report, Cache Creek investigation. (a) pl. D1—1:62,500; (b) pl. D2—1:10,800.
Calif. Dept. Water Resources, 1958, Geology of Wilson Valley and Guinda damsites on Cache Creek; Appendix C of Interim report, Cache Creek investigation: Div. Resources Planning Bull. no. 20. (a) pl. C5—1:62,500; (b) pl. C6—1:10,800.

55-43 Calif. Water Resources Board, 1955, Geology of Alameda County area; Appendix C of Alameda County investigation: Bull. no. 13. Pl. C1—1:145,000.

56-7 Kunkel, Fred, and Riley, F. S., 1959, Geologic reconnaissance and test-well drilling, Camp Irwin, California: U. S. Geol. Survey Water-Supply Paper 1460-F. Pl. 9—1:62,500.

56-10 Thomasson, H. G., Jr., Olmsted, Franklin H., and LeRoux, E. F., 1960, Geology, water resources and usable ground-water storage capacity of part of Solano County, California: U. S. Geol. Survey Water-Supply Paper 1464. (a) pl. 1—1:62,500; (b) pl. 2—1:24,000.

56-23 Byers, F. M., Jr., 1960, Geology of the Alvord Mountain quadrangle, San Bernardino County, California: U. S. Geol. Survey Bull. 1089-A. Pl. 1—1:62,500.

56-24 Geological Society of Sacramento, 1960, Northwestern California; a traverse of the Klamath uplift, northern Coast Ranges, and Eel River basin: Annual Field Trip, G.S.S., June 3-5, 1960. Pl. 6—1:500,000.

56-25 Chesterman, Charles W., 1957, Pumice, pumicite, perlite and volcanic cinders: Calif. Div. Mines Bull. 176, p. 433-448. (b) fig. 3—1:72,000; (l) fig. 4—1:12,500.
Chesterman, Charles W., 1957, General geology of the Coso Range pumice and perlite area, Inyo County, California; Appendix A of Volcanic lightweight aggregates of western United States: XX Session, International Geologic Congress, Mexico City, 1956; Section I, Vulcanología del Cenozoico, v. 1, p. 205-229. (b) fig. 3—1:100,000; (l) fig. 4—1:18,200.

56-29 Olmsted, Franklin H., 1958, Geologic reconnaissance of San Clemente Island, California: U. S. Geol. Survey Bull. 1071-B. Pl. 1—1:31,680.

56-31 Rinehart, C. D., and Ross, D. C., 1957, Geology of the Casa Diablo Mountain quadrangle, California: U. S. Geol. Survey Geologic Quadrangle Map GQ-99. Map—1:62,500.

56-37 Calif. Div. Water Resources, 1956, Geology, hydrology, and water quality of the alluviated areas of Mendocino County and recommended standards of water well construction and sealing: Water Quality Investigations, Rept. no. 10. (a) pl. 3—1:62,500; (b) pl. 4—1:62,500; (c) pl. 5—1:62,500; (d) pl. 6—1:62,500; (e) pl. 7—1—1:62,500 & 1:40,000; (f) pl. 7—2—1:62,500; (g) pl. 7—3—1:62,500; (h) pl. 7—4—1:62,500 & 1:40,000.
Calif. Dept. Water Resources, 1958, Recommended water well construction and sealing standards, Mendocino County: Div. Resources Planning Bull. no. 62. (a) pl. 3—1:62,500; (b) pl. 4—1:62,

500; (c) pl. 5-1:62,500; (d) pl. 6-1:62,500; (e) pl. 7-1-1:62,000 & 1:40,000; (f) pl. 7-2-1:62,500; (g) pl. 7-3-1:62,500; (h) pl. 7-4-1:62,500 & 1:40,000.

56-38 Mabey, Don R., 1956, Geophysical studies in the intermontane basins in southern California: Geophysics, v. 21, no. 3, p. 839-853. Fig. 7-1:425,000 (approx.).

56-39 Calif. Div. Water Resources, 1956, Santa Margarita River investigation: Bull. no. 57, v. 1, p. 25-106. (a) pl. 13A-1:156,000; (b) pl. 13B-1:156,000.

56-40 Davis, Dudley L., and Hetland, Donald L., 1956, Uranium in clastic rocks of the Basin and Range Province: U. S. Geol. Survey Prof. Paper 300, p. 351-359. (a) fig. 114-1:145,000; (b) fig. 117-1:3,600.

Troxel, Bennie W., Stinson, Melvin C., and Chesterman, Charles W., 1957, Uranium: Calif. Div. Mines Bull. 176, p. 669-687. (b) fig. 6-1:4,320.

56-41 Society of Economic Paleontologists and Mineralogists, 1956, Huasna basin, San Luis Obispo County: Annual Spring Field Trip, S.E.P.M., May 5, 1956. Map-1:96,000.

57-1 McCulloh, Thane H., 1957, Simple Bouguer gravity and generalized geologic map of the northwestern part of the Los Angeles basin, California: U. S. Geol. Survey Geophysical Investigations Map GP-149. Map-1:48,000 (map indicates faults and major time-rock units).

57-2 Yerkes, R. F., 1957, Volcanic rocks of the El Modeno area, Orange County, California: U. S. Geol. Survey Prof. Paper 274-L. Pl. 46-1:10,800.

57-3 Radbruch, Dorothy H., 1957, Areal and engineering geology of the Oakland West quadrangle: U. S. Geol. Survey Miscellaneous Geologic Investigations Map I-239. Map-1:24,000.

57-4 Smith, George I., and Pratt, W. P., 1957, Core logs from Owens, China, Searles, and Panamint basins, California: U. S. Geol. Survey Bull. 1045-A. Fig. 1-1:2,300,000 (Quaternary lakes only, three areas).

57-5 Allen, Clarence R., 1957, San Andreas fault zone in San Gorgonio Pass, southern California: Geol. Soc. America Bull., v. 68, no. 3, p. 315-350. (a) pl. 1-1:63,360; (b) pl. 2-1:31,680; (c) pl. 3-1:15,840; (d) pl. 4-1:15,840.

57-6 Back, W., 1957, Geology and ground-water features of the Smith River plain, Del Norte County, California: U. S. Geol. Survey Water-Supply Paper 1254. Pl. 6-1:62,500.

57-7 Vedder, J. G., Yerkes, R. F., and Schoellhamer, J. E., 1957, Oil possibilities of San Joaquin Hills-San Juan Capistrano area, California: U. S. Geol. Survey Oil and Gas Investigations Map OM-193. Map-1:24,000.

57-8 Stinson, Melvin C., 1957, Geology of the Island Mountain copper mine, Trinity County, California: Calif. Jour. Mines and Geology, v. 53, no. 1-2, p. 9-33. Pl. 1-1:18,000; pl. 3-1:2,400; fig. 13-1:2,500.

57-9 Johnson, B. K., 1957, Geology of a part of the Manly Peak quadrangle, southern Panamint Range, California: Calif. Univ. Pubs. Geol. Sci., v. 30, no. 5, p. 353-424. Fig. 1-1:53,000 (approx.).

57-10 Evernden, J. E., Curtis, G. H., and Lipson, J., 1957, Potassium-argon dating of igneous rocks: Am. Assoc. Petroleum Geologists Bull., v. 41, no. 9, p. 2120-2127. Fig. 1-1:535,000 & 1:120,000.

Curtis, G. H., Evernden, J. F., and Lipson, J., 1958, Age determination of some granitic rocks in California by the potassium-argon method: Calif. Div. Mines Special Rept. 54. Fig. 3-1:250,000 & 1:53,-000.

Rose, Robert L., 1957, Andalusite- and corundum-bearing pegmatites in Yosemite National Park, California: Am. Mineralogist, v. 42, no. 9-10, p. 635-647. Fig. 1-1:187,500.

57-11 Hail, W. J., Jr., 1957, Reconnaissance for uranium in asphalt-bearing rocks in the western United States: U. S. Geol. Survey Bull. 1046-E, p. 55-85. Fig. 15-1:31,560 (adapted from U. S. Geol. Survey Oil and Gas Investigations Map OM-16).

57-12 Merriam, Charles W., and Hall, Wayne E., 1957, Pennsylvanian and Permian rocks of the southern Inyo Mountains, California: U. S. Geol. Survey Bull. 1061-A. Fig. 1-1:700,000 (Carboniferous and Permian age rocks only).

57-13 Wilshire, H. G., 1957, Propylitization of Tertiary volcanic rocks near Ebbetts Pass, Alpine County, California: Calif. Univ. Pubs. Geol. Sci., v. 32, no. 4, p. 243-271. Fig. 1-1:70,000.

57-14 Bonham, L. C., 1957, Structural petrology of the Pico anticline, Los Angeles Co., California: Jour. Sedimentary Petrology, v. 27, no. 3, p. 251-264. Fig. 2-1:97,000.

57-15 Quade, W. L., 1957, Clay minerals from the Ventura basin, California: Jour. Sedimentary Petrology, v. 27, no. 3, p. 336-341. Fig. 1-1:94,000.

57-16 Nelson, Harry E., 1957, Uranium occurrences in the Mojave mining district, Kern County, California: U. S. Atomic Energy Commission RME-2058. (a) fig. 2-1:125,000; (b) fig. 3-1:4,800; (c) fig. 4-1:636; (d) pl. 1-1:6,000.

57-17 Gianella, V. P., 1957, Earthquake and faulting, Fort Sage Mountains, California, December, 1950: Seismological Soc. America Bull., v. 47, no. 3, p. 173-177. Fig. 1-1:75,000.

57-18 Benda, William K., Erd, R. C., and Smith, Ward C., 1957, Core logs from five holes near Kramer, in the Mojave Desert, California: U. S. Geol. Survey Open File Report. Map-1:62,500 (geology by T. W. Dibblee, Jr.).

Benda, William K., Erd, R. C., and Smith, Ward C., 1960, Core logs from five test holes near Kramer, California: U. S. Geol. Survey Bull. 1045-F, p. 319-393. Pl. 11-1:62,500 (geology by T. W. Dibblee, Jr.).

57-19 Dibblee, T. W., Jr., 1957, Simplified geologic map of the western Mojave Desert, California: U. S. Geol. Survey Open File Report. Map-1:250,000. On file at: Calif. Div. Mines, Ferry Bldg., San Francisco; U.S.G.S., 345 Middlefield Rd., Menlo Park; U.S.G.S., Rm. 1031, Bartlett Bldg., Los Angeles; U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D. C.

Mabey, Don R., 1960, Gravity survey of the western Mojave Desert, California: U. S. Geol. Survey Prof. Paper 316-D, p. 51-73. Pl. 10-1:250,000.

57-20 Gribi, E. A., Jr., 1957, Santa Cruz basin holds important promise: Oil and Gas Journal, v. 55, no. 13, p. 113-116. Fig. 1-1:920,000.

57-21 Wood, P. R., and Davis, George H., 1957, Ground-water conditions in the Avenal-McKittrick area, Kings and Kern Counties, California: U. S. Geol. Survey Open File Report. Map-1:125,000.

Wood, P. R., and Davis, George H., 1959, Ground-water conditions in the Avenal-McKittrick area, Kings and Kern Counties, California: U. S. Geol. Survey Water-Supply Paper 1457. Pl. 1-1:125,000.

57-22 Kunkel, Fred, 1957, Data on water wells in the Willow Springs, Gloster, and Chaffee areas, Kern County, California: U. S. Geol. Survey Open File Report. Pl. 1-1:62,500.

Calif. Dept. Water Resources, 1960, Data on water wells in the Willow Springs, Gloster, and Chaffee areas, Kern County, California: Federal-State Cooperative Ground-Water Investigations, Bull. no. 91-4. Fig. 2-1:62,500.

57-23 Moore, D. G., 1957, Acoustic soundings of Quaternary marine sediments off Pt. Loma, California: Research Report 815, U. S. Navy Electronics Laboratory, San Diego. Fig. 10-1:83,000 (approx.).

57-24 Bowes, W. A., Bales, W. E., and Haselton, G. M., 1957, Geology of the uraniferous bog deposit at Pettit Ranch, Kern County, California: U. S. Atomic Energy Commission RME-2063 (Pt. 1). Pl. 1-1:2,600 (approx.).

57-25 Calif. Div. Mines, 1957, Proposed wildlife withdrawal: Mineral Information Service, v. 10, no. 10, p. 1, 6-12. Map-1:250,000.

57-26 Chesterman, Charles W., 1957, Pumice, pumicite, perlite and volcanic cinders: Calif. Div. Mines Bull. 176, p. 433-448. (a) fig. 6-1:15,000; (b) fig. 8-1:6,900.

Chesterman, Charles W., 1957, General geology of the Rust perlite area, San Bernardino County, California; Appendix B of Volcanic lightweight aggregates of western United States: XX Session, International Geologic Congress, Mexico City, 1956; Section I, Vulcanología del Cenozoico, v. 1, p. 205-229. (b) fig. 5-1:9,300.

57-27 Wright, Lauren A., 1957, Talc and soapstone: Calif. Div. Mines Bull. 176, p. 623-634. (a) fig. 2-1:500,000; (b) fig. 4-1:700,000.

57-28 Troxel, Bennie W., Stinson, Melvin C., and Chesterman, Charles W., 1957, Uranium: Calif. Div. Mines Bull. 176, p. 669-687. (a) fig. 3-1:83,000; (b) fig. 7-1:32,750; (c) fig. 9-1:150,000 (approx.); (d) fig. 11-1:250,000.

57-29 Troxel, Bennie W., 1957, Wollastonite: Calif. Div. Mines Bull. 176, p. 693-698. (a) fig. 1-1:35,600 and 1:40,800; (b) fig. 3-1:1,140.

57-30 Rodda, Peter U., 1957, Paleontology and stratigraphy of some marine Pleistocene deposits in northwest Los Angeles basin, California: Am. Assoc. Petroleum Geologists Bull., v. 41, no. 11, p. 2475-2492. Fig. 3-1:9,600.

57-31 Calif. Dept. Water Resources, 1958, Sea-water intrusion in California: Div. Resources Planning Bull. no. 63. Pl. 22-1:24,000.

Calif. Dept. Water Resources, 1957, Geologic studies relative to investigational work for prevention and control of sea water intrusion; Appendix A of Report by Los Angeles Flood Control District on investigational work for prevention and control of sea water intrusion, West Coast Basin Experimental Project, Los Angeles County; Appendix B of Sea-Water Intrusion in California: Div. Resources Planning Bull. no. 63. Pl. 1-1:30,000.

57-32 Troxell, Harold C., 1957, Water resources of southern California, with special reference to the drought of 1944-1951: U. S. Geol. Survey Water-Supply Paper 1366. Fig. 40-1:1,000,000 (approx.; alluvial and playa deposits only).

57-33 Smith, Bernice Young, 1957, Lower Tertiary foraminifera from Contra Costa County, California: Calif. Univ. Pubs. Geol. Sci., v. 32, no. 3, p. 127-242. Fig. 2-1:28,000 (approx.).

57-34 Calif. Dept. Water Resources, 1957, West Walker River investigation: Div. Resources Planning Bull. no. 64 (preliminary edition). Pl. 4-1:133,000 (alluvium, lake beds and glacial deposits only).

57-35 Geological Society of Sacramento, 1957, The Cretaceous and associated formations of the Redding area, Shasta County, California: Annual Field Trip, G.S.S., May 25-26, 1957. Pl. 1-1:36,000.

57-36 Miller, William J., 1957, California through the ages; the geologic story of a great state: Westernlore Press, Los Angeles, 264 p. (a) fig. 44-1:625,000; (b) fig. 95-1:437,500 (approx.).

57-37 Kirkpatrick, Doug, 1957, San Andreas fault near Redlands, California: The Compass, v. 34, no. 4, p. 304-309. Fig. 1-1:146,000 (approx.).

58-1 Dibblee, T. W., Jr., 1958, Geologic map of the Castle Butte quadrangle, Kern County, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-170. Map—1:62,500.

58-2 Schlocker, Julius, Bonilla, M. G., and Radbruch, Dorothy H., 1958, Geology of the San Francisco North quadrangle, California: U. S. Geol. Survey Miscellaneous Geologic Investigations Map I-272. Map—1:24,000.

58-3 Winterer, E. L., and Durham, D. L., 1958, Geologic map of a part of the Ventura basin, Los Angeles County, California: U. S. Geol. Survey Oil and Gas Investigations Map OM-196. Map—1:24,000.

58-4 Radbruch, Dorothy H., and Schlocker, Julius, 1958, Engineering geology of Islais Creek basin, San Francisco, California: U. S. Geol. Survey Miscellaneous Geologic Investigations Map I-264. Map—1:12,000.

58-5 Dibblee, T. W., Jr., 1958, Geologic map of the Boron quadrangle, Kern and San Bernardino Counties, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-204. Map—1:62,500.

58-6 Klein, Ira E., and Goldman, Harold B., 1958, Sand and gravel resources of Cache Creek in Lake, Colusa and Yolo Counties, California: Calif. Jour. Mines and Geology, v. 54, no. 2, p. 237-296. Pl. 1—1:185,000.

58-7 Cleveland, George B., 1958, Poverty Hills diatomaceous earth deposit, Inyo County, California: Calif. Jour. Mines and Geology, v. 54, no. 3, p. 305-316. Fig. 2—1:6,000 (approx.).

58-8 Bellemín, G. J., and Merriam, R. H., 1958, Petrology and origin of the Poway conglomerate, San Diego County, California: Geol. Soc. America Bull., v. 69, no. 2, p. 199-220. Fig. 1—1:312,500 (approx.).

58-9 Dibblee, T. W., Jr., 1958, Tertiary stratigraphic units of western Mojave Desert, California: Am. Assoc. Petroleum Geologists Bull., v. 42, no. 1, p. 135-144. Fig. 1—1:500,000 (approx.).

58-10 Gay, Thomas E., Jr., and Aune, Quintin A., 1958, Alturas sheet: Calif. Div. Mines Geologic Map of California. Map—1:250,000.

58-11 Goodwin, J. G., 1958, Mines and mineral resources of Tulare County, California: Calif. Jour. Mines and Geology, v. 54, no. 3, p. 317-492. (a) fig. 3—1:8,700; (b) fig. 4—1:6,600; (c) fig. 5—1:31,250; (d) fig. 6—1:40,800; (e) fig. 7—1:4,000; (f) fig. 8—1:960; (g) 9—1:83,300; (h) fig. 12—1:1,000; (j) fig. 17—1:16,320; (k) fig. 18—1:1,000.

58-12 Carlisle, D., and Cleveland, George B., 1958, Plants as a guide to mineralization: Calif. Div. Mines Special Rept. 50. (a) fig. 6—1:4,800; (b) fig. 7—1:2,760.

58-13 Higgins, J. W., editor, 1958, A guide to the geology and oil fields of the Los Angeles and Ventura regions: Annual Meeting, Pacific Section, Am. Assoc. Petroleum Geologists—Society of Economic Paleontologists and Mineralogists, March 10-13, 1958. (a) map, p. 80—1:62,500; (b) map, p. 81—1:62,500; (c) map, p. 82—1:62,500; (d) map, p. 83—1:62,500; (e) map, p. 122—1:125,000; (f) map, p. 130—1:125,000; (g) map, p. 146—1:26,400; (h) map, p. 156—1:375,000; (j) map, p. 168—1:24,000.

58-14 Hackel, Otto, and Krammes, K. F., 1958, Round Mountain area: Spring Field Trip, San Joaquin Geological Society, May 17, 1958. Map—1:48,000.

58-15 Geological Society of Sacramento, 1958, East side Sacramento Valley—Mother Lode area, California: Annual Field Trip, G.S.S., April 19-20, 1958. (a) pl. 2—1:18,000; (b) pl. 3—1:50,000 (geology by L. D. Clark, A. A. Stromquist and others).

58-16 Muehlberger, W. R., 1958, Geology of northern Soledad basin, Los Angeles County, California: Am. Assoc. Petroleum Geologists Bull., v. 42, no. 8, p. 1812-1844. (a) fig. 2—1:395,000; (b) fig. 3—1:51,600.

58-17 Hall, Wayne E., and MacKevett, E. M., 1958, Economic geology of the Darwin quadrangle, Inyo County, California: Calif. Div. Mines Special Rept. 51. (a) pl. 1—1:62,500; (b) pl. 2—1:21,000 & fig. 23—1:2,800; (c) pl. 3—1:2,400 & fig. 9—1:2,400; (d) pl. 5—1:3,600; (e) pl. 3—1:2,400 & fig. 20—1:3,000; (f) pl. 9—1:3,000 & fig. 6—1:2,400; (g) fig. 10—1:1,200; (h) fig. 13—1:1,200 & fig. 14—1:2,400; (j) fig. 22—1:2,000.

Hall, Wayne E., 1958, Structure and ore deposits of the Darwin quadrangle, Inyo County, California: U. S. Geol. Survey Open File Report. (a) pl. 2—1:140,000 & fig. 2—1:150,000; (b) pl. 3—1:20,000; (d) pl. 5—1:2,400. On file at: Calif. Div. Mines, Ferry Bldg., San Francisco; U.S.G.S., 232 Appraisers Bldg., San Francisco.

58-18 Hill, M. L., Carlson, S. A., and Dibblee, T. W., Jr., 1958, Stratigraphy of Cuyama Valley, Caliente Range area, California: Am. Assoc. Petroleum Geologists Bull., v. 42, no. 12, p. 2973-3000. (a) fig. 3—1:275,000; (b) fig. 4—1:32,800 (approx.); (c) fig. 5—1:32,800 (approx.); (d) fig. 6—1:32,800 (approx.); (e) fig. 7—1:32,800 (approx.); (f) fig. 8—1:48,000 (approx.); (g) fig. 9—1:32,800 (approx.); (h) fig. 10—1:32,800 (approx.); (j) fig. 11—1:32,800 (approx.).

58-19 Cardwell, G. T., 1958, Geology and ground-water in the Santa Rosa and Petaluma Valley areas, Sonoma County, California: U. S. Geol. Survey Water-Supply Paper 1427. Pl. 1—1:62,500.

58-20 Ver Planck, William E., 1958, Salt in California: Calif. Div. Mines Bull. 175. Fig. 10, p. 31—1:4,800. Ver Planck, William E., 1957, Salt: Calif. Div. Mines Bull. 176, p. 483-494. Fig. 11—1:5,000.

58-21 Olmsted, Franklin H., and Davis, George H., 1958, Geologic features and ground-water storage capacity of the Sacramento Valley, California: U. S. Geol. Survey Open File Report. Pl. 1-1:125,000. On file at: U.S.G.S., 2929 Fulton Ave., Sacramento; Calif. Div. Mines, Ferry Bldg., San Francisco.

58-22 Dutcher, L. C., and Garrett, A. A., 1958, Geologic and hydrologic features of the San Bernardino area, California, with special reference to underflow across the San Jacinto fault: U. S. Geol. Survey Open File Report. (a) pl. 1-1:500,000 (approx.); (b) pl. 3-1:31,250. Dutcher, L. C., and Burnham, W. L., 1959, Geology and ground-water hydrology of the Mill Creek area, San Bernardino County, California: U. S. Geol. Survey Open File Report. (a) pl. 1-1:500,000. On file at: Calif. Div. Mines, Ferry Bldg., San Francisco; U.S.G.S. 2929 Fulton Ave., Sacramento; U.S.G.S., 221 Redondo Ave., Long Beach; U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D.C.

58-23 Bader, J. S., and Moyle, W. R., Jr., 1958, Data on water wells and springs in Morongo Valley and vicinity, San Bernardino and Riverside Counties, California: U.S. Geol. Survey Open File Report. Pl. 1-1:62,500. On file at: Calif. Div. Mines, Ferry Bldg., San Francisco; U.S.G.S., 2929 Fulton Ave., Sacramento; U.S.G.S., 221 Redondo Ave., Long Beach; U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D.C.

58-24 Bader, J. S., Page, R. W., and Dutcher, L. C., 1958, Data on water wells in the upper Mojave Valley area, San Bernardino County, California: U. S. Geol. Survey Open File Report. Pl. 1-1:62,500. On file at: Calif. Div. Mines, Ferry Bldg., San Francisco; U.S.G.S., 2929 Fulton Ave., Sacramento; U.S.G.S., 221 Redondo Ave., Long Beach; U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D. C.

58-25 Pistrang, M. A., and Kunkel, Fred, 1958, A brief geologic and hydrologic reconnaissance of the Furnace Creek Wash area, Death Valley National Monument, California: U. S. Geol. Survey Open File Report. Pl. 2-1:31,250. On file at: Calif. Div. Mines, Ferry Bldg., San Francisco; U.S.G.S., 2929 Fulton Ave., Sacramento; U.S.G.S., 221 Redondo Ave., Long Beach; U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D. C.

58-26 Green, J. H., and Cochran, W. A., 1958, Preliminary map showing geology of the deposits of Late Tertiary and Quaternary age along the west border of the San Joaquin Valley, California, from Los Banos to Kettleman City: U. S. Geol. Survey Open File Report. Map-1:62,500. On file at: Calif. Div. Mines, Ferry Bldg., San Francisco; U.S.G.S., 2929 Fulton Ave., Sacramento; U.S.G.S., 221 Redondo Ave., Long Beach; U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D. C.

58-27 Wood, P. R., 1958, Geology and ground-water features of the Butte Valley region, Siskiyou County, California: U. S. Geol. Survey Open File Report. Pl. 1-1:62,500. Wood, P. R., 1960, Geology and ground-water features of the Butte Valley region, Siskiyou County, California: U. S. Geol. Survey Water-Supply Paper 1491. Pl. 1-1:62,500. Calif. Dept. Water Resources, 1960, Klamath River basin investigation: Div. Resources Planning Bull. no. 83. Pl. 6-1:165,000.

58-28 Merriam, R. H., 1958, Geology of the Santa Ysabel quadrangle, San Diego County, California: Calif. Div. Mines Bull. 177. Pl. 1-1:62,500.

58-29 Hall, Clarence A., Jr., 1958, Geology and paleontology of the Pleasanton area, Alameda and Contra Costa Counties, California: Calif. Univ. Pubs. Geol. Sci., v. 34, no. 1, p. 1-90. Map 1-1:39,000.

58-30 Jennings, Charles W., 1958, Death Valley sheet: Calif. Div. Mines Geologic Map of California. Map-1:250,000.

58-31 Merriam, R. H., 1958, Orbicular gabbro near Pine Valley, California: Southern California Acad. Sci. Bull., v. 57, part 1, p. 24-33. Map-1:36,000 (geol. sketch map).

58-32 Muehlberger, W. R., and Hill, H. S., 1958, Geology of the central Sierra Pelona, Los Angeles County, California: Am. Jour. Sci., v. 256, no. 9, p. 630-643. Fig. 2-1:30,000.

58-33 Ross, D. C., 1958, Igneous and metamorphic rocks of Sequoia and Kings Canyon National Parks, California: Calif. Div. Mines Special Rept. 53. Pl. 1-1:62,500.

58-34 Nelson, C. A., 1958, Sketch map of the area proposed as the Ancient Bristlecone Pine Forest: Calif. Div. Mines Mineral Information Service, v. 11, no. 10, p. 11. Map-1:468,750.

58-35 Curtis, G. H., Evernden, J. F., and Lipson, J., 1958, Age determination of some granitic rocks in California by the potassium-argon method: Calif. Div. Mines Special Rept. 54. Fig. 2-1:750,000.

58-36 Calif. Dept. Water Resources, 1958, Geology of Wilson Valley and Guinda damsites on Cache Creek; Appendix C of Interim report, Cache Creek investigation: Div. Resources Planning Bull. no. 20. Pl. C1-1:7,500.

58-37 Calif. Dept. Water Resources, 1958, San Luis Obispo County investigation: State Water Resources Board Bull. no. 18, v. 1. Pl. 7a, 7b, 7c-1:200,000 (approx.).

58-38 Rogers, John J. W., 1958, Textural and spectrochemical studies of White Tank quartz monzonite, California: Geol. Soc. America Bull., v. 69, no. 4, p. 449-464. Fig. 1-1:330,000.

58-39 Sherlock, Donald G., and Hamilton, Warren, 1958, Geology of the north half of the Mt. Abbot quadrangle, Sierra Nevada, California: *Geol. Soc. America Bull.*, v. 69, no. 10, p. 1245-1267. Pl. 1-1:62,500.

58-40 Thompson, George A., and Sandberg, Clarence H., 1958, Structural significance of gravity surveys in the Virginia City-Mount Rose area, Nevada and California: *Geol. Soc. America Bull.*, v. 69, no. 10, p. 1269-1282. Pl. 1-1:125,000.

58-41 Bateman, P. C., 1959, The geology of the Bishop 15-minute quadrangle, California: U. S. Geol. Survey Open File Report. (a) pl. 1-1:48,000; (b) fig. 11-1:49,500. On file at: U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D.C.; U.S.G.S., 345 Middlefield Rd., Menlo Park; Calif. Div. Mines, Ferry Bldg., San Francisco.

58-42 Davis, Stanley N., 1958, Glaciated peaks in the northern Coast Ranges, California: *Am. Jour. Sci.*, v. 256, no. 9, p. 620-629. Fig. 2-1:60,000 (glacial deposits).

58-43 Ames, L. L., Jr., Sand, L. B., and Goldich, S. S., 1958, A contribution on the Hector, California bentonite deposit: *Econ. Geol.*, v. 53, no. 1, p. 22-37. Fig. 2-1:20,400 (approx.).

58-44 Power, W. Robert, 1958, Preliminary report on the geology and uranium deposits of Haiwee Ridge, Inyo County, California: U. S. Atomic Energy Commission RME-2066. Pl. 1-1:24,000.

59-1 Geological Society of Sacramento, 1959, Coast Ranges, Livermore Valley to Hollister area: Annual Field Trip, G.S.S., May 2-3, 1959. (a) map-1:250,000; (b) map-1:62,500; (c) map-1:24,000.

59-2 Kranimes, K. F., and Curran, J. F., 1959, Correlation section across Santa Maria basin: Pacific Section, Am. Assoc. Petroleum Geologists. Map-1:48,000.

59-3 Davis, Stanley N., and Hall, F. R., 1959, Water quality of eastern Stanislaus and northern Merced Counties, California: Stanford Univ. Pubs. Geol. Sci., v. 6, no. 1. Pl. 2-1:300,000 (approx.).

59-4 Dibblee, T. W., Jr., 1959, Geology of the Rosamond quadrangle, California: U. S. Geol. Survey Open File Report. Map-1:62,500. On file at: U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D.C.; U.S.G.S., 345 Middlefield Rd., Menlo Park; Calif. Div. Mines, Ferry Bldg., San Francisco.

59-5 Dibblee, T. W., Jr., 1959, Geology of the Rogers Lake quadrangle, California: U. S. Geol. Survey Open File Report. Map-1:62,500. On file at: U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D.C.; U.S.G.S., 345 Middlefield Rd., Menlo Park; Calif. Div. Mines, Ferry Bldg., San Francisco.

59-6 San Joaquin Geological Society, 1959, Chico Martinez Creek area, California: Field Trip Guidebook, S.J.G.S., May 9, 1959. (a) photogeologic map-1:55,000 (approx.); (b) geologic map-1:48,000.

59-7 Poland, J. F., Garrett, A. A., and Sinnott, Allen, 1959, Geology, hydrology and chemical character of ground-waters in the Torrance-Santa Monica area, California: U. S. Geol. Survey Water-Supply Paper 1461. (a) pl. 1-1:625,000; (b) pl. 2 & 3-1:31,680.

59-8 Dutcher, L. C., 1959, Data on water wells in the Fremont Valley area, Kern County, California: U. S. Geol. Survey Open File Report. Pl. 1-1:62,500. On file at: U.S.G.S., 221 Redondo Ave., Long Beach; U.S.G.S., 2929 Fulton Ave., Sacramento; U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D. C., Calif. Div. Mines, Ferry Bldg., San Francisco.

59-9 Durham, D. L., and Yerkes, R. F., 1959, Geologic map of the eastern Puente Hills, Los Angeles basin, California: U. S. Geol. Survey Oil and Gas Investigations Map OM-195. Map-1:24,000.

59-10 Burnham, C. Wayne, 1959, Contact metamorphism of magnesian limestones at Crestmore, California: *Geol. Soc. America Bull.*, v. 70, no. 7, p. 879-920. (a) pl. 1-1:2,400; (b) pl. 2-1:7,560; (c) fig. 2-1:1,680; (d) pl. 10-1:600.

59-11 Rinehart, C. D., Ross, D. C., and Huber, N. K., 1959, Paleozoic and Mesozoic fossils in a thick stratigraphic section in the eastern Sierra Nevada, California: *Geol. Soc. America Bull.*, v. 70, no. 7, p. 941-946. Fig. 1-1:420,000.

The Sierra Club, 1959, The Mammoth Lakes Sierra, a handbook for roadside and trail: The Sierra Club, San Francisco, 145 p. Fig. 17-1:156,000.

59-12 Lydon, Philip A., 1959, Geology along U.S. Highway 40: Calif. Div. Mines Mineral Information Service, v. 12, no. 8, p. 1-9. Map-1:125,000.

59-13 Dibblee, T. W., Jr., 1959, Geologic map of the Alpine Butte quadrangle, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-222. Map-1:62,500.

59-14 Grose, L. T., 1959, Structure and petrology of the northeast part of the Soda Mountains, San Bernardino County, California: *Geol. Soc. America Bull.*, v. 70, no. 12, p. 1509-1548. Pl. 1-1:31,680.

59-15 Drewes, Harald, 1959, Turtleback faults of Death Valley, California: a re-interpretation: *Geol. Soc. America Bull.*, v. 70, no. 12, p. 1497-1508. (a) fig. 1-1:200,000; (b) fig. 2-1:40,000; (c) fig. 3-1:40,000.

59-16 Bailey, Edgar H., and Irwin, William P., 1959, K-feldspar content of Jurassic and Cretaceous graywackes of northern Coast Ranges and Sacramento Valley, California: Am. Assoc. Petroleum Geologists Bull., v. 43, no. 12, p. 2797-2809. Fig. 2-1:1,250,000.

59-17 Hall, Clarence A., Jr., Jones, David L., and Brooks, S. A., 1959, Pigeon Point formation of Late Cretaceous age, San Mateo County, California: Am.

Assoc. Petroleum Geologists Bull., v. 43, no. 12, p. 2855-2865. Fig. 2-1:195,000.

59-18 California Association of Engineering Geologists, 1959, East side San Joaquin Valley: Field Trip, C.A.E.G., June 5-6, 1959. Map-1:2,400.

59-19 Haines, D. V., 1959, Core logs from Searles Lake, San Bernardino County, California: U. S. Geol. Survey Bull. 1045-E. Fig. 6-1:145,000 (approx.).

59-20 Glen, William, 1959, Pliocene and lower Pleistocene of the western part of the San Francisco peninsula: Calif. Univ. Pubs. Geol. Sci., v. 36, no. 2, p. 147-198. (a) fig. 2-1:46,875; (b) fig. 3-1:31,250.

59-21 Jennings, Charles W., and Strand, Rudolph G., 1959, Santa Cruz sheet: Calif. Div. Mines Geologic Map of California. Map-1:250,000.

59-22 Dutcher, L. C., and Burnham, W. L., 1959, Geology and ground-water hydrology of the Mill Creek area, San Bernardino County, California: U. S. Geol. Survey Open File Report. Pl. 2-1:25,000. On file at U.S.G.S., 2929 Fulton Ave., Sacramento; U.S.G.S., 221 Redondo Ave., Long Beach; U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D. C.; Calif. Div. Mines, Ferry Bldg., San Francisco.

59-23 Calif. Dept. Water Resources, 1959, San Dieguito River investigation: Bull. no. 72, v. 1. Pl. 5-1:104,000.

59-24 Engel, René, Gay, Thomas E., Jr., and Rogers, B. L., 1959, Mineral deposits of Lake Elsinore quadrangle, California: Calif. Div. Mines Bull. 146, p. 59-141. (a) pl. 5-1:41,600; (b) pl. 6-1:1,200; (c) pl. 7-1:2,000.

59-25 Jennings, Charles W., 1959, San Luis Obispo sheet: Calif. Div. Mines Geologic Map of California. Map-1:250,000.

59-26 Jennings, Charles W., 1959, Santa Maria sheet: Calif. Div. Mines Geologic Map of California. Map-1:250,000.

59-27 Bowen, Oliver E., Jr., and Gray, Cliffton H., Jr., 1959, Geology and economic possibilities of the limestone and dolomite deposits of the northern Gabilan Range, California: Calif. Div. Mines Special Rept. 56. (a) fig. 2-1:250,000; (b) pl. 1-1:15,840.

59-28 Bonilla, M. G., 1959, Geological observations in the epicentral area of the San Francisco earthquake of March 22, 1957: Calif. Div. Mines Special Rept. 57, p. 25-37. Fig. 2-1:10,340.

59-29 Hart, Earl W., 1959, Geology of limestone and dolomite deposits in the southern half of Standard quadrangle, Tuolumne County, California: Calif. Div. Mines Special Rept. 58. Pl. 1-1:41,625.

59-30 Rose, Robert L., 1959, Tertiary volcanic domes near Jackson, California: Calif. Div. Mines Special Rept. 60. (a) fig. 3-1:39,000; (b) fig. 4-1:8,000.

59-31 Lydon, Philip A., 1959, Geological section and petrography along the Poe Tunnel, Butte County, California: Calif. Div. Mines Special Rept. 61. Pl. 1-1:18,000.

59-32 Evenson, R. E., 1959, Geology and ground-water features of the Eureka area, Humboldt County, California: U. S. Geol. Survey Water-Supply Paper 1470. Pl. 1-1:62,500.

59-33 Radbruch, Dorothy H., 1959, Former shoreline features along the east side of San Francisco Bay, California: U. S. Geol. Survey Miscellaneous Geologic Investigations Map I-298. Map-1:48,000 (alluvium and fill only).

59-34 McGill, John T., 1959, Preliminary map of landslides in the Pacific Palisades area, City of Los Angeles, California: U. S. Geol. Survey Miscellaneous Geologic Investigations Map-I-284. Map-1:4,800.

59-35 Davis, George H., Green, J. H., Olmsted, Franklin H., and Brown, D. W., 1959, Ground-water conditions and storage capacity in the San Joaquin Valley, California: U. S. Geol. Survey Water-Supply Paper 1469. Pl. 24-1:1,000,000.

59-36 Durrell, Cordell, 1959, Tertiary stratigraphy of the Blairsden quadrangle, Plumas County, California: Calif. Univ. Pubs. Geol. Sci., v. 34, no. 3, p. 161-192. (a) map 3-1:24,000; (b) map 4-1:24,000; (c) map 5-1:24,000.

59-37 Durrell, Cordell, 1959, The Lovejoy formation of northern California: Calif. Univ. Pubs. Geol. Sci., v. 34, no. 4, p. 193-220. (a) map 3-1:62,500; (b) map 4-1:62,500.

59-38 Paschall, Robert, and Off, Ted, 1959, San Gabriel fault problem in the Castaic area: Coast Geological Society Occasional Papers no. 1, p. 1-8. (a) pl. 1-1:125,000; (b) pl. 2-1:45,500.

59-39 Society of Economic Paleontologists and Mineralogists, 1959, Big Basin area, Santa Cruz Mountains, California: Guidebook, Annual Field Trip, Pacific Section, S.E.P.M., April 24-25, 1959. (a) fig. 2-1:90,000; (b) fig. 4-1:290,000.

Beveridge, Alexander J., 1960, Heavy minerals in Lower Tertiary formations in the Santa Cruz Mountains, California: Jour. Sedimentary Petrology, v. 30, no. 4, p. 513-537. (b) fig. 1-1:435,000.

59-40 Crowell, John C., and Susuki, Takeo, 1959, Eocene stratigraphy and paleontology, Orocopia Mountains, southeastern California: Geol. Soc. America Bull., v. 70, no. 5, p. 581-592. Pl. 1-1:62,500.

Society of Economic Paleontologists and Mineralogists—American Association of Petroleum Geologists, 1958, Imperial Valley: Annual Spring Field Trip, S.E.P.M.—A.A.P.G., May 2-3, 1958. Map 2-1:78,000.

59-41 Wells, Francis G., Walker, George W., and Merriam, Charles W., 1959, Ordovician (?) and Upper Silurian formations of the northern Klam-

ath Mountains, California: Geol. Soc. America Bull., v. 70, no. 5, p. 645-650. Pl. 1-1:312,500.

59-42 Dibblee, T. W., Jr., 1959, Geologic map of the Inyokern quadrangle, California: U. S. Geol. Survey Open File Report. Map-1:62,500. On file at: U.S.G.S., 232 Appraisers Bldg., San Francisco; U.S.G.S., Rm. 1031, Bartlett Bldg., Los Angeles.

59-43 Sharp, Robert P., Allen, Clarence R., and Meier, Mark F., 1959, Pleistocene glaciers on southern California mountains: Am. Jour. Sci., v. 257, no. 2, p. 81-94. (a) fig. 3-1:26,400 (glacial deposits); (b) fig. 4-1:26,400 (glacial deposits); (c) fig. 5-1:26,400 (glacial deposits); (d) fig. 6-1:26,400 (glacial deposits); (e) fig. 7-1:26,400 (glacial deposits).

Ingle, James C., Jr., and Moran, Douglas E., 1958, Evidence of glaciation on Mount San Gorgonio, San Bernardino County, California: The Compass, v. 35, no. 4, p. 230-237. (b) fig. 7-1:36,500 (glacial deposits).

59-44 Bloxam, T. W., 1959, Glaucophane-schists and associated rocks near Valley Ford, California: Am. Jour. Sci., v. 257, no. 2, p. 95-112. Fig. 1-1:18,000.

59-45 Lovering, J. Kerry, and Durrell, Cordell, 1959, Zoned gabbro pegmatites of Eureka Peak, Plumas County, California: Jour. Geol., v. 67, no. 3, p. 253-268. Fig. 2-1:31,400.

59-46 Wasserburg, G. J., Wetherill, G. W., and Wright, Lauren A., 1959, Ages in the Precambrian terrane of Death Valley, California: Jour. Geol., v. 67, no. 6, p. 702-708. (a) fig. 2-1:33,600; (b) fig. 3-1:33,600.

59-47 Kunkel, Fred, 1959, Map of the Murrieta, Bachelor Mountain, and parts of the Pechanga and Temecula quadrangles showing geology, locations of selected wells, and water-level contours for October, 1958: U. S. Geol. Survey Open File Report. Map-1:62,500 (2 maps). On file at: U.S.G.S., 2929 Fulton Ave., Sacramento; U.S.G.S. 221 Redondo Ave., Long Beach; U.S.G.S. Rm. 1242-G, G.S.A. Bldg., Washington, D. C.

60-1 Higgins, Charles G., 1960, Ohlson Ranch formation, Pliocene, northwestern Sonoma County, California: Calif. Univ. Pubs. Geol. Sci., v. 36, no. 3, p. 199-232. Map 1-1:47,260.

60-2 Jennings, Charles W., and Strand, Rudolph G., 1960, Ukiah sheet: Calif. Div. Mines Geologic Map of California. Map-1:250,000.

60-3 Pakiser, L. C., Press, Frank, and Kane, M. F., 1960, Geophysical investigations of Mono basin, California: Geol. Soc. America Bull., v. 71, no. 4, p. 415-448. Pl. 1-1:200,000.

60-4 Clark, Lorin D., 1960, Foothills fault system, western Sierra Nevada, California: Geol. Soc. America Bull., v. 71, no. 4, p. 483-496. Pl. 1-1:625,000.

60-5 Kupfer, Donald L., 1960, Thrust faulting and chaos structure, Silurian Hills, San Bernardino County, California: Geol. Soc. America Bull., v. 71, no. 2, p. 181-214. (a) pl. 1-1:9,600; (b) pl. 2-1:36,000 & pl. 3-1:48,000; (c) fig. 8-1:1,800.

60-6 Pakiser, L. C., 1960, Transcurrent faulting and volcanism in Owens Valley, California: Geol. Soc. America Bull., v. 71, no. 2, p. 153-160. Fig. 1-1:1,500,000.

Kane, M. F., and Pakiser, L. C., 1961, Geophysical study of subsurface structure in southern Owens Valley, California: Geophysics, v. 26, no. 1, p. 12-26. Fig. 2-1:550,000 (approx.).

60-7 Putnam, William C., 1960, Origin of Rock Creek and Owens River gorges, Mono County, California: Calif. Univ. Pubs. Geol. Sci., v. 34, no. 5, p. 221-280. Map 1-1:24,000.

60-8 Sullwood, Harold H., Jr., 1960, Tarzana fan, deep submarine fan of late Miocene age, Los Angeles County, California: Am. Assoc. Petroleum Geologists Bull., v. 44, no. 4, p. 433-457. (a) fig. 6-1:108,000; (b) fig. 10-1:800,000 (approx.).

60-9 Dibblee, T. W., Jr., 1960, Preliminary geologic map of the Shadow Mountains quadrangle, Los Angeles and San Bernardino Counties, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-227. Map-1:62,500.

60-10 Smith, Patsy B., 1960, Foraminifera of the Monterey shale and Puente formation, Santa Ana Mountains and San Juan Capistrano area, California: U. S. Geol. Survey Prof. Paper 294-M. (a) fig. 155-1:100,000; (b) fig. 156-1:109,000.

60-11 Dibblee, T. W., Jr., 1960, Geologic map of the Barstow quadrangle, San Bernardino County, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-233. Map-1:62,500.

60-12 McNitt, James R., 1960, Geothermal power: Calif. Div. Mines Mineral Information Service, v. 13, no. 3, p. 1-9. (a) fig. 2-1:62,500; (b) fig. 5-1:28,500.

60-13 Irwin, William P., 1960, Geologic reconnaissance of the northern Coast Ranges and Klamath Mountains, California, with a summary of mineral resources: Calif. Div. Mines Bull. 179. Pl. 1-1:500,000.

60-14 Marsh, Owen T., 1960, Geology of the Orchard Peak area, California: Calif. Div. Mines Special Rept. 62. Pl. 1-1:36,000.

60-15 Sanborn, Albert F., 1960, Geology and paleontology of the southwest quarter of the Big Bend quadrangle, Shasta County, California: Calif. Div. Mines Special Rept. 63. Pl. 1-1:62,500.

60-16 Cleveland, George B., 1960, Geology of the Otay bentonite deposit, San Diego County, California: Calif. Div. Mines Special Rept. 64. Pl. 1-1:12,000.

60-17 Dibblee, T. W., Jr., 1960, Preliminary geologic map of the Victorville quadrangle, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-229. Map-1:62,500.

60-18 Dibblee, T. W., Jr., 1960, Preliminary geologic map of the Apple Valley quadrangle, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-232. Map—1:62,500.

60-19 Society of Economic Paleontologists and Mineralogists, 1960, Type Panoche, Panoche Hills area, Fresno County, California: Annual Field Trip, Pacific Section, S.E.P.M., April 15-16, 1960. (a) fig. 2—1:62,500; (b) fig. 3—1:100,000.

60-20 Dibblee, T. W., Jr., 1960, Geologic map of the Hawes quadrangle, San Bernardino County, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-226. Map—1:62,500.

60-21 Calif. Div. Oil and Gas, 1960, San Joaquin-Sacramento Valleys and northern coastal regions: California Oil and Gas Fields, Maps and Data Sheets, part 1. (a) map, p. 446—1:45,000 (approx.); (b) map, p. 466—1:48,000 (approx.).

60-22 United States Dept. of Interior, National Park Service, 1960, Proposed Point Reyes National Seashore: Preliminary Land Use Survey, Region Four Office, San Francisco, 30 p. Map, p. 14—1:125,000. United States Dept. of Interior, National Park Service, 1961, Proposed Point Reyes National Seashore: Land Use Survey, Region Four Office, San Francisco, 18 p. Map, after p. 18—1:125,000.

60-23 Woodford, A. O., 1960, Bedrock patterns and strike-slip faulting in southwestern California: Am. Jour. Sci., Bradley Volume, v. 258-A, p. 400-417. Fig. 1—1:2,000,000.

60-24 Scholl, David W., 1960, Relationship of the insular shelf sediments to the sedimentary environments and geology of Anacapa Island, California: Jour. Sedimentary Petrology, v. 30, no. 1, p. 123-139. (a) fig. 3—1:46,500, (b) fig. 4—1:175,000.

60-25 Matthes, François E., 1960, Reconnaissance of the geomorphology and glacial geology of the San Joaquin basin, Sierra Nevada, California: U. S. Geol. Survey Prof. Paper 329. (a) pl. 1—1:125,000 (glacial geology only); (b) fig. 5—1:937,500.

60-26 MacKevett, E. M., 1960, Geology and ore deposits of the Kern River uranium area, California: U. S. Geol. Survey Bull. 1087-F, p. 169-222. (a) pl. 21—1:24,000; (b) pl. 23—1:2,400; (c) pl. 24—1:2,400.

60-27 Kunkel, Fred, and Upson, J. E., 1960, Geology and ground-water in Napa and Sonoma Valleys, Napa and Sonoma Counties, California: U. S. Geol. Survey Water-Supply Paper 1495. Pl. 2—1:62,500.

60-28 Mack, Seymour, 1960, Geology and ground-water features of Shasta Valley, Siskiyou County, California: U. S. Geol. Survey Water-Supply Paper 1484. Pl. 1—1:62,500.

Calif. Dept. Water Resources, 1960, Klamath River basin investigation: Div. Resources Planning Bull. no. 83. Pl. 9—1:150,000.

60-29 Brown, Robert D., Jr., and Rich, Ernest I., 1960, Early Cretaceous fossils in submarine slump deposits of Late Cretaceous Age, northern Sacramento Valley, California: U. S. Geol. Survey Prof. Paper 400-B, p. B318-B320. Fig. 149.1—1:187,500.

60-30 Dibblee, T. W., Jr., 1960, Geologic map of the Lancaster quadrangle, Los Angeles County, California: U. S. Geol. Survey Mineral Investigations Field Studies Map MF-76. Map—1:62,500.

60-31 Emery, K. O., 1960, The sea off southern California: John Wiley & Sons, Inc., New York. 366 p. Fig. 78—1:145,000 (approx.).

60-32 Langenheim, Ralph L., Jr., and Tischler, Herbert, 1960, Mississippian and Devonian paleontology and stratigraphy, Quartz Spring area, Inyo County, California: Calif. Univ. Pubs. Geol. Sci., v. 38, no. 2, p. 89-152. Fig. 1—1:31,680.

60-33 Coogan, Alan H., 1960, Stratigraphy and paleontology of the Permian Nosoni and Dekkas formations (Bollibokka group): Calif. Univ. Pubs. Geol. Sci., v. 36, no. 5, p. 243-316. Fig. 2—1:58,000 (approx.).

60-34 McCulloh, Thane H., 1960, Gravity variations and the geology of the Los Angeles basin of California: U. S. Geol. Survey Prof. Paper 400-B, p. B320-B325. Fig. 150.1—1:450,000 (shows faults and gravity anomalies only).

60-35 Calif. Dept. Water Resources, 1960, Investigation of upper Feather River basin development: Div. Resources Planning Bull. no. 59-2. (a) pl. 2—1:440,000; (b) pl. 7—1:2,400; (c) pl. 12—1:2,400; (d) pl. 13—1:6,000; (e) pl. 15—1:2,400; (f) pl. 16—1:4,800; (g) pl. 17—1:2,400; (h) pl. 18—1:2,400.

60-36 Calif. Dept. Water Resources, 1960, Northeastern counties investigation: Div. Resources Planning Bull. no. 58. (a) pl. 1—1:665,000 (sheet 1); (b) pl. 1—1:665,000 (sheet 2); (c) pl. 1—1:665,000 (sheet 3).

60-37 Calif. Dept. Water Resources, 1960, Data on wells in the west part of the middle Mojave Valley area, San Bernardino County, California: Federal-State Co-operative Ground-Water Investigations, Bull. no. 91-1. Pl. 1—1:62,500.

Page, R. W., Moyle, W. R., Jr., and Dutcher, L. C., 1960, Data on wells in the west part of the middle Mojave Valley area, San Bernardino County, California: U. S. Geol. Survey Open File Report. Map—1:62,500.

60-38 Calif. Dept. Water Resources, 1960, Data on water wells and springs in the Yucca Valley-Twenty-Nine Palms area, San Bernardino and Riverside Counties, California: Federal-State Co-operative Ground-Water Investigations, Bull. no. 91-2. Fig. 2—1:62,500.

60-39 Calif. Dept. Water Resources, 1960, Data on water wells in the eastern part of the middle Mojave

Valley area, San Bernardino County, California: Federal-State Co-operative Ground-Water Investigations, Bull. no. 91-3, Fig. 2-1:62,500.

60-40 Geological Society of Sacramento, 1960, Northwestern California; a traverse of the Klamath uplift, northern Coast Ranges and Eel River basin: Annual Field Trip, G.S.S., June 3-5, 1960. Pl. 4-1:250,000.

60-41 Chesterman, Charles W., 1960, Intrusive ultrabasic rocks and their metamorphic relationships at Leech Lake Mountain, Mendocino County, California: International Geological Congress, Report of the Twenty-First Session, Part XIII, p. 208-215. Map, p. 212-1:20,000.

60-42 Crowell, John C., 1960, The San Andreas fault in southern California: International Geological Congress, Report of the Twenty-First Session, Part XVIII, p. 45-52. Fig. 1-1:2,000,000.

60-43 Putnam, William C., 1960, Faulting and Pleistocene glaciation in the east-central Sierra Nevada of California, U. S. A.; International Geological Congress, Report of the Twenty-First Session, Part XXI, p. 270-274. Fig. 1-1:90,000.

60-44 Orr, Phil C., 1960, Late Pleistocene marine terraces on Santa Rosa Island, California: Geol. Soc. America Bull., v. 71, no. 7, p. 1113-1120. Fig. 1-1:36,000.

60-45 McCulloh, Thane H., 1960, Geologic map of the Lane Mountain quadrangle, California; U. S. Geol. Survey Open File Report. Map-1:45,000. On file at: U.S.G.S., 345 Middlefield Rd., Menlo Park; U.S.G.S., 232 Appraisers Bldg., San Francisco; U.S.G.S., Rm. 1031, Bartlett Bldg., Los Angeles; Calif. Div. Mines, Ferry Bldg., San Francisco.

60-46 Castle, R. O., 1960, Geology of the Baldwin Hills area, California: U. S. Geol. Survey Open File Report. Map-1:12,000. On file at: U.S.G.S., 232 Appraisers Bldg., San Francisco; U.S.G.S., Rm. 1031, Bartlett Bldg., Los Angeles; Calif. Div. Mines, Ferry Bldg., San Francisco.

60-47 Castle, R. O., 1960, Surficial geology of the Beverly Hills and Venice quadrangles, California: U. S. Geol. Survey Open File Report. Map-1:24,000. On file at: U.S.G.S., 232 Appraisers Bldg., San Francisco; U.S.G.S., Rm. 1031, Bartlett Bldg., Los Angeles; Calif. Div. Mines, Ferry Bldg., San Francisco.

60-48 Lydon, Philip A., Gay, Thomas E., Jr., and Jennings, Charles W., 1960, Westwood sheet: Calif. Div. Mines Geologic Map of California. Map-1:250,000.

60-49 Pestana, Harold R., 1960, Fossils from the Johnson Spring formation, Middle Ordovician, Independence quadrangle, California: Jour. Paleo., v. 34, no. 5, p. 862-873. Fig. 1-1:125,000.

60-50 Bloxam, T. W., 1960, Jadeite-rocks and glauconite-schists from Angel Island, San Francisco Bay, California: Am. Jour. Sci., v. 258, no. 8, p. 555-573. (a) fig. 2-1:18,200; (b) fig. 3-1:1,056.

60-51 Compton, Robert R., 1960, Charnockitic rocks of Santa Lucia Range, California: Am. Jour. Sci., v. 258, no. 9, p. 609-636. (a) fig. 1-1:520,000; (b) fig. 2-1:37,200.

60-52 Churkin, Michael, Jr., and Langenheim, Ralph L., Jr., 1960, Silurian strata of the Klamath Mountains, California: Am. Jour. Sci., v. 258, no. 4, p. 258-273. Fig. 1-1:80,000.

60-53 Murphy, Michael A., and Rodda, Peter U., 1960, Mollusca of the Cretaceous Bald Hills formation of California: Jour. Paleo., v. 34, no. 5, p. 835-858. Fig. 1-1:77,500 and 1:44,000.

60-54 Sharp, Robert P., 1960, Pleistocene glaciation in the Trinity Alps of northern California: Am. Jour. Sci., v. 258, no. 5, p. 305-340. (a) fig. 2-1:104,000 (glacial deposits only); (b) fig. 4-1:50,000 (glacial deposits only); (c) fig. 5-1:45,000 (glacial deposits only); (d) fig. 6-1:45,000 (glacial deposits only); (e) fig. 7-1:35,000 (glacial deposits only); (f) fig. 8-1:62,500 (glacial deposits only); (g) fig. 9-1:45,000 (glacial deposits only); (h) fig. 10-1:45,000 (glacial deposits only); (j) fig. 11-1:45,000 (glacial deposits only); (k) fig. 12-1:48,000 (glacial deposits only).

60-55 Trujillo, Ernest F., 1960, Upper Cretaceous foraminifera from near Redding, Shasta County, California: Jour. Paleo., v. 34, no. 2, p. 290-346. Fig. 2-1:156,250.

60-56 Kunkel, Fred, 1960, Reconnaissance of groundwater in the western part of the Mojave Desert region, California: U. S. Geol. Survey Open File Report. Map-1:250,000 (compilation, after T. W. Dibblee, Jr.). On file at: U.S.G.S., Rm. 1242-G, G.S.A. Bldg., Washington, D. C.; U.S.G.S., 2929 Fulton Ave., Sacramento; U.S.G.S., 221 Redondo Ave., Long Beach; U.S.G.S., Rm. 1031, Bartlett Bldg., Los Angeles.

60-57 Yerkes, R. F., 1960, Preliminary geologic maps of the La Habra and Whittier quadrangles, Los Angeles basin, California: U. S. Geol. Survey Open File Report. (a) map-1:24,000; (b) map-1:24,000. On file at: U.S.G.S., 345 Middlefield Rd., Menlo Park; U.S.G.S., Rm. 1031, Bartlett Bldg., Los Angeles; Calif. Div. Mines, Ferry Bldg., San Francisco.

60-58 Merriam, R. H., 1960, Portugese Bend landslide, Palos Verdes Hills, California: Jour. Geol., v. 68, no. 2, p. 140-153. Fig. 2-1:27,000.

INDEX TO GEOLOGIC MAPS BY STATE GEOLOGIC MAP SHEETS

Alturas: 58-10; 58-27; 60-15; 60-36c.

Bakersfield: 53-24*l*; 57-19; 57-21; 57-22; 57-24; 57-28*c,d*; 57-32; 58-9; 58-11*c,f,k*; 58-14; 58-18*a,d,e,f,g,h*; 58-37; 59-6*a,b*; 59-8; 59-35; 60-26*a,b,c*; 60-42; 60-56.

Chico: 58-21; 58-40; 59-12; 59-31; 59-36*a,b,c*; 59-37*a,b*; 59-45; 60-4; 60-21*b*; 60-35*a,b,c,d,e,f*; 60-36*b*.

Death Valley: 54-79*e,f,g,h*; 56-25*b,l*; 56-40*a,b*; 57-4; 57-12; 57-27*a,b*; 57-28*a*; 58-17*a,b,c,d,e,f,g,h,j*; 58-25; 58-30; 58-44; 59-15*a,b,c*; 60-6; 60-32.

Fresno: 56-40*a*; 57-4; 57-12; 57-27*b*; 58-11*a,b,d,e,g,h,j*; 58-26; 58-33; 59-18; 59-35; 60-6; 60-25*b*; 60-49.

Kingman: 54-36; 54-75*b*; 57-27*a*; 60-5*b*.

Long Beach: 27-1; 45-11; 46-4; 51-35; 56-29; 57-1; 57-31; 57-36*b*; 58-13*c*; 58-22*a*; 59-7*a,b*; 60-8*b*; 60-23; 60-24*b*; 60-31; 60-34; 60-46; 60-47; 60-57*b*; 60-58.

Los Angeles: 27-1; 32-14*c*; 47-9; 51-35; 53-28*a,b,c*; 54-37; 54-49; 57-1; 57-14; 57-15; 57-16*a,b,c,d*; 57-19; 57-22; 57-28*b*; 57-30; 57-32; 57-36*b*; 58-3; 58-9; 58-13*a,b,e,h,j*; 58-16*a,b*; 58-18*a,b,c,f,g,h,j*; 58-22*a*; 58-32; 58-37; 59-4; 59-7*a,b*; 59-34; 59-35; 59-38*a,b*; 60-8*a,b*; 60-23; 60-24*a,b*; 60-30; 60-34; 60-42; 60-46; 60-47; 60-56.

Mariposa: 56-31; 57-10; 57-26*a*; 57-27*b*; 58-7; 58-34; 58-39; 58-41*a,b*; 59-11; 59-18; 59-35; 60-3; 60-4; 60-6; 60-7; 60-25*a,b*; 60-43.

Needles: 58-38.

Redding: 53-26; 54-4; 56-24; 56-37*e*; 57-8; 57-35; 58-21; 58-35; 59-16; 59-32; 60-13; 60-21*a*; 60-33; 60-36*b,c*; 60-40; 60-53; 60-54*a,f,g,h,j*; 60-55.

Sacramento: 55-40; 56-10*a,b*; 58-6; 58-12*b*; 58-15*a,b*; 58-21; 59-12; 59-30*a,b*; 59-35; 60-4; 60-36*a*.

Salton Sea: 54-21; 57-29*a*; 58-38; 59-4*c*; 60-42.

San Bernardino: 55-12; 56-38; 57-5*a*; 57-18; 57-19; 57-22; 57-26*b*; 57-32; 57-37; 58-9; 58-22*a,b*; 58-23; 58-24; 58-38; 58-43; 59-5; 59-7*a*; 59-8; 59-10; 59-13; 59-22; 59-43*a,b,c,d,e*; 60-8*b*; 60-9; 60-11; 60-17; 60-18; 60-20; 60-23; 60-34; 60-37; 60-38; 60-39; 60-42; 60-56.

San Diego-El Centro: 51-35; 57-23; 58-8; 58-31; 59-23; 60-16; 60-23.

San Francisco: 43-48; 55-17; 55-21; 55-41; 55-43; 57-3; 57-20; 57-33; 57-36*a*; 58-2; 58-4; 59-17; 59-20*a,b*; 59-28; 59-33; 59-39*a,b*; 60-22; 60-50*a,b*.

San Jose: 42-7; 55-43; 57-20; 58-26; 58-29; 59-1*a,c*; 59-3; 59-29; 59-35; 60-4; 60-25*b*.

San Luis Obispo: 56-41; 57-11; 57-21; 58-18*a,d*; 58-37; 59-25; 59-35; 60-14; 60-51*a*.

Santa Ana: 26-6; 45-11; 51-35; 54-21; 55-14; 56-39*a,b*; 57-2; 57-5*a,b,c,d*; 57-7; 58-8; 58-12*a*; 58-13*d,f,g*; 58-22*a*; 58-28; 58-38; 59-7*a*; 59-9; 59-23; 59-24*a,b,c*; 59-47; 60-10*a,b*; 60-23; 60-34; 60-42; 60-57*a*.

Santa Cruz: 32-17; 42-1; 52-24; 54-82; 57-20; 57-25; 58-26; 58-37; 59-1*a,b*; 59-21; 59-27*a,b*; 59-35; 59-39*b*; 60-19*a,b*; 60-25*b*; 60-51*a,b*.

Santa Maria: 44-1; 47-9; 51-35; 58-20; 58-37; 59-2; 59-26; 60-44.

Santa Rosa: 51-24; 55-17; 55-40; 55-42*a,b*; 56-10*a,b*; 56-37*a,d,h*; 57-33; 57-36*a*; 58-6; 58-19; 58-21; 58-36; 59-16; 59-44; 60-1; 60-12*a,b*; 60-13; 60-22; 60-27; 60-36*a*.

Trona: 46-12; 54-79*e,h*; 56-7; 57-4; 57-9; 57-18; 57-19; 57-22; 57-27*a*; 57-29*b*; 57-32; 58-1; 58-5; 58-9; 59-8; 59-14; 59-15*a*; 59-19; 59-42; 59-46*a,b*; 60-5*a,b,c*; 60-45; 60-56.

Ukiah: 56-24; 56-37*a,b,c,d,e,f,g,h*; 58-6; 58-21; 58-42; 59-16; 60-2; 60-13; 60-29; 60-36*b*; 60-41.

Walker Lake: 57-13; 57-34; 59-35; 60-3; 60-6.

Weed: 34-8; 55-20; 56-24; 57-6; 58-27; 59-41; 60-13; 60-28; 60-36*c*; 60-52; 60-54*b,c,d,e,k*.

Westwood: 57-17; 58-21; 60-4; 60-35*a,g,h*; 60-36*b,c*; 60-48.

INDEX TO AUTHORS

Albers, J. P.—54-4
Allen, Clarence R.—57-5; 59-43
Almond, Hy—46-12
American Association of Petroleum Geologists—Society of Economic Paleontologists and Mineralogists—58-13
Ames, L. L., Jr.—58-43
Aune, Quintin A.—58-10
Back, W.—57-6
Bader, J. S.—58-23; 58-24
Bailey, Edgar H.—59-16
Bales, W. E.—57-24
Balsley, J. R., Jr.—51-35
Bateman, P. C.—58-41
Bellemín, G. J.—58-8
Benda, William K.—57-18
Beveridge, Alexander J.—59-39
Bloxam, T. W.—59-44; 60-50
Bonham, L. C.—57-14
Bonilla, M. G.—58-2; 59-28
Bowen, Oliver E., Jr.—59-27
Bowes, W. A.—57-24
Bramlette, M. N.—44-1
Bromery, R. W.—51-35
Brooks, S. A.—59-17
Brown, D. W.—59-35
Brown, Robert D., Jr.—60-29
Burnham, C. Wayne—59-10
Burnham, W. L.—58-22; 59-22
Byers, F. M., Jr.—56-23
California Association of Engineering Geologists—59-18
Calif. Dept. Water Resources—54-37; 55-14; 55-20; 55-42; 56-37; 57-22; 57-31; 57-34; 58-27; 58-36; 58-37; 59-23; 60-28; 60-35; 60-36; 60-37; 60-38; 60-39
Calif. Div. Mines—26-6; 32-14; 54-79; 57-25
Calif. Div. Oil and Gas—60-21
Calif. Div. Water Resources—55-40; 56-37; 56-39
Calif. Water Resources Board—53-28; 55-42; 55-43
Cardwell, G. T.—58-19
Carlisle, D.—53-24; 58-12
Carlson, S. A.—58-18
Castle, R. O.—60-46; 60-47
Chesterman, Charles W.—56-25; 56-40; 57-26; 57-28; 60-41
Churkin, Michael, Jr.—60-52
Clark, Lorin D.—60-4
Classen, W. J.—55-41
Cleveland, George B.—53-24; 58-7; 58-12; 60-16
Cochran, W. A.—58-26
Compton, Robert R.—60-51
Coogan, Alan H.—60-33
Cowell, John C.—59-40; 60-42
Curran, J. F.—59-2
Curtis, G. H.—57-10; 58-35
Davis, Dudley L.—56-40
Davis, George H.—57-21; 58-21; 59-35
Davis, Stanley N.—58-42; 59-3
Dibblee, T. W., Jr.—57-19; 58-1; 58-5; 58-9; 58-18; 59-4; 59-5; 59-13; 59-42; 60-9; 60-11; 60-17; 60-18; 60-20; 60-30
Drewes, Harald—59-15
Durham, D. L.—58-3; 59-9
Durrell, Cordell—59-36; 59-37; 59-45
Dutcher, L. C.—58-22; 58-24; 59-8; 59-22; 60-37
Emery, K. O.—51-35; 60-31
Engel, René—59-24
Erd, R. C.—57-18
Evenson, R. E.—59-32
Evernden, J. F.—57-10; 58-35
Galliher, E. Wayne—32-17
Garrett, A. A.—58-22; 59-7
Gay, Thomas E., Jr.—58-10; 59-24; 60-48
Geological Society of Sacramento—53-26; 56-24; 57-35; 58-15; 59-1; 60-40
Gianella, V. P.—57-17
Glen, William—59-20
Goldich, S. S.—58-43
Goldman, Harold B.—42-1; 58-6
Goodwin, J. G.—53-24; 58-11
Graham, J. J.—55-44
Gray, Clifton H., Jr.—59-27
Green, J. H.—58-26; 59-35
Gribi, E. A., Jr.—57-20
Grose, L. T.—59-14
Hackel, Otto—58-14
Hail, W. J., Jr.—57-11
Haines, D. V.—59-19
Hall, Clarence A., Jr.—58-29
Hall, F. R.—59-3
Hall, Wayne E.—54-4; 57-12; 58-17
Hamilton, Warren—58-39
Hart, Earl W.—59-29
Haselton, G. M.—57-24
Hetland, Donald L.—56-40
Higgins, Charles G.—60-1
Higgins, J. W.—58-13
Hill, H. S.—58-32
Hill, M. L.—58-18
Huber, N. K.—59-11
Jennings, Charles W.—51-24; 58-30; 59-21; 59-25; 59-26; 60-2; 60-48
Johnson, B. K.—57-9
Jones, David L.—59-17
Kahanovitz, Yona—54-82
Kanaya, T.—42-7
Kane, M. F.—60-3; 60-6
Kinkel, A. R., Jr.—54-4

Kirkpatrick, Doug—57-37
 Klein, Ira E.—58-6
 Krammes, K. F.—58-14; 59-2
 Kunkel, Fred—56-7; 57-22; 58-25; 59-47; 60-27; 60-56
 Kupfer, Donald L.—60-5
 Langenheim, Ralph L., Jr.—60-32; 60-52
 LeRoux, E. F.—56-10
 Lipson, J.—57-10; 58-35
 Lovering, J. Kerry—59-45
 Lydon, Philip A.—54-49; 59-12; 59-31; 60-48
 Mabey, Don R.—56-38; 57-19
 Mack, Seymour—55-20; 60-28
 MacKevett, E. M.—58-17; 60-26
 Manning, John C.—54-82
 Marsh, Owen T.—60-14
 Matthes, François E.—60-25
 McCulloh, Thane H.—57-1; 60-34; 60-45
 McGill, John T.—59-34
 McNitt, James R.—60-12
 Meier, Mark F.—59-43
 Merriam, Charles W.—57-12; 59-41
 Merriam, R. H.—58-8; 58-28; 58-31; 60-58
 Miller, William J.—57-36
 Moore, D. G.—57-23
 Moran, Douglas E.—59-43
 Moyle, W. R., Jr.—58-23; 60-37
 Muehlberger, W. R.—58-16; 58-32
 Murphy, Michael A.—60-53
 Nelson, C. A.—58-34
 Nelson, Harry E.—57-16
 Oakeshott, Gordon B.—46-4; 50-20; 55-17; 55-21
 O'Brien, J. C.—54-4
 Off, Ted—59-38
 Olmsted, Franklin H.—56-10; 56-29; 58-21; 59-35
 Orr, Phil C.—60-44
 Page, R. W.—58-24; 60-37
 Pakiser, L. C.—60-3; 60-6
 Paschall, Robert—59-38
 Pestana, Harold R.—60-49
 Pistrang, M. A.—58-25; 59-35
 Poland, J. F.—45-11; 59-7
 Power, W. Robert—58-44
 Pratt, W. P.—57-4
 Pray, Lloyd C.—54-75
 Press, Frank—60-3
 Putnam, William C.—60-7; 60-43
 Quaide, W. L.—57-15
 Radbruch, Dorothy H.—57-3; 58-2; 58-4; 59-33
 Rich, Ernest I.—60-29
 Richey, K. A.—43-48
 Riley, F. S.—56-7
 Rinehart, C. D.—56-31; 59-11
 Rodda, Peter U.—57-30; 60-53
 Rogers, B. L.—59-24
 Rogers, John J. W.—58-38
 Rose, Robert L.—57-10; 59-30
 Ross, D. C.—56-31; 57-19; 58-33; 59-11
 Sanborn, Albert F.—60-15
 Sand, L. B.—58-43
 Sandberg, Clarence H.—58-40
 San Joaquin Geological Society—58-14; 59-6
 Sawyer, D. L.—46-12
 Schlocker, Julius—58-2; 58-4
 Schoellhamer, J. E.—57-7
 Schöll, David W.—60-24
 Sharp, Robert P.—54-36; 59-43; 60-54
 Sherlock, Donald G.—58-39
 Sierra Club, The—59-11
 Sinnott, Allen—59-7
 Smith, Bernice Young—57-33
 Smith, George I.—46-12; 57-4
 Smith, Patsy B.—60-10
 Smith, Ward C.—57-18
 Society of Economic Paleontologists and Mineralogists—
 52-24; 56-41; 59-39; 60-19
 Society of Economic Paleontologists and Mineralogists—
 American Association of Petroleum Geologists—54-21;
 59-40
 Stinson, Melvin C.—56-40; 57-8; 57-28
 Stock, C.—27-1
 Strand, Rudolph G.—59-21; 60-2
 Sullwood, Harold H., Jr.—60-8
 Susuki, Takeo—59-40
 Thomasson, H. G., Jr.—56-10
 Thompson, George A.—58-40
 Tischler, Herbert—60-32
 Troxel, Bennie W.—55-12; 56-40; 57-28; 57-29
 Troxell, Harold C.—57-32
 Trujillo, Ernest F.—60-55
 United States Dept. of Interior, National Park Service—
 60-22
 Upson, J. E.—60-27
 Vedder, J. G.—57-7
 Ver Planck, William E.—58-20
 Walker, George W.—59-41
 Wasserburg, G. J.—59-46
 Wells, Francis G.—59-41
 Wetherill, G. W.—59-46
 Williams, Howel—34-9
 Wilshire, H. G.—57-13
 Wilson, H. D., Jr.—47-9
 Winterer, E. L.—58-3
 Wood, P. R.—57-21; 58-27
 Woodford, A. O.—60-23
 Woodring, W. P.—44-1
 Wright, Lauren A.—57-27; 59-46
 Yerkes, R. F.—57-2; 57-7; 59-9; 60-57

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SEP 22 '82

APR 9 '83

APR 11 '83

APR 17 '83

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